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OM nucleic - nucleic search, using sw model

Run on: October 7, 2003, 08:32:46 ; Search time 155.853 Seconds

(without alignments)
8065.662 Million cell updates/sec

Title: US-08-951-733-13

Perfect score: 2848
Sequence: 1 CACGCGTCCGGCAGCGCTG.....GATGCCGGCCACGCGCTAT 2848

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 08
Maximum Match 1008

Listing first 45 summaries

Database : Issued_Patents_NA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	2837	99.6	4015	3	US-08-851-843A-224
2	2837	99.6	4015	3	US-08-974-549A-1
3	2837	99.6	4015	3	US-08-854-050-224
4	2837	99.6	4015	4	US-09-430-323-224
5	2837	99.6	4015	4	US-09-572-423B-3
6	2837	99.6	4015	4	US-09-128-354-1
7	2837	99.6	4015	4	US-09-675-321-1
8	2837	99.6	4015	4	US-09-052-919-1
9	2837	99.6	4015	4	US-08-912-951-1
10	2837	99.6	4015	4	US-09-733-294A-3
11	2837	99.6	4037	3	US-08-974-549A-343
12	2671.2	93.8	4029	3	US-08-851-843A-173
13	2671.2	93.8	4029	3	US-08-974-549A-292
14	2671.2	93.8	4029	3	US-08-854-050-173
15	2671.2	93.8	4029	4	US-09-430-323-173
16	2463	86.5	3855	4	US-08-974-549A-4
17	2463	86.5	3855	4	US-08-912-951-4
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21	1517.6	53.3	4300	4	US-08-912-951-6
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31	772.6	27.1	2171	3	US-08-974-549A-266	Sequence 266, App
32	772.6	27.1	2171	3	US-08-854-050-100	Sequence 100, App
33	772.6	27.1	2171	4	US-09-430-323-100	Sequence 100, App
34	385.8	13.5	389	3	US-08-851-843A-62	Sequence 62, Appl1
35	385.8	13.5	389	3	US-08-974-549A-8	Sequence 8, Appl1
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39	187	6.6	409	4	US-09-733-294A-31	Sequence 31, Appl1
40	182	6.4	182	3	US-08-974-549A-9	Sequence 9, Appl1
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43	97.6	3.4	240	4	US-08-912-951-7	Sequence 7, Appl1
44	68.6	2.4	12001	1	US-08-458-568A-11	Sequence 11, Appl1
45	67.6	2.4	90	3	US-08-974-549A-697	Sequence 697, App

ALIGNMENTS

RESULT 1
US-08-851-843A-224
Sequence 224, Application US/08851843A
Patent No. 6093809
GENERAL INFORMATION:
APPLICANT: Cech, Thomas R.
APPLICANT: Lingner, Joachim
APPLICANT: Nakamura, Toru
APPLICANT: Chapman, Karen B.
APPLICANT: Morlin, Gregg B.
APPLICANT: Harley, Calvin
APPLICANT: Andrews, William H.
TITLE OF INVENTION: No. 6093809e1 Telomerase
NUMBER OF SEQUENCES: 225
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: United States of America
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/08/851,843A
FILING DATE: 06-MAY-1997
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-0029300US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 224:

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? SEQUENCE CHARACTERISTICS:
? LENGTH: 4015 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: CDNA
? FEATURE:
? NAME/KEY: CDS
? LOCATION: 56..3454
? OTHER INFORMATION: /product="hTRT"
? OTHER INFORMATION: /note="human telomerase reverse
? OTHER INFORMATION: transcriptase (hTRT) catalytic protein
? OTHER INFORMATION: component"
? US-08-851-843A-224

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Query Match	99.6%	Score 2837	DB 3	Length 4015
Best Local Similarly	100.0%	Pred. No. 0		
Matches 2837, Conservative	0	Mismatches	0	Indels 0; Gaps 0

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Db	61	GCAGCGCTCCCGCTGCAGCGCCGTCGCTCCCTGCTGCGACGACCTACCGGAGAGTGT	120
OY	132	GCCGCTGGCCACGTTCTGTGGGCGCCTGGGGGCCCAAGGACTGGGCGTGTGCACGCGG	191
Db	121	GCCGCTGGCCACGTTCTGTGGGCGCCTGGGGGCCCAAGGAGTGGCGGTGTGCACGCGG	180
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OY	372	GCTGT	431
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Db	421	CCTGCGCCAAACAGGTCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG	480
OY	492	CCGCGTGGGCGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG	551
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OY	612	TCAGGCG	671
Db	601	TCAGGCG	660
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Db	721	GAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG	780
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Db	841	GGGTGGACCGAAGTGAACCGTGGTTCTGTGTGGTGTACACTGGCAGAACCCGGCCGAAGAAGC	900
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Db	901	CACCTCTTTTGGAGGGGTGGCGCTCTCTGGGACGCGCCACTGCCACCACCTCGTGGGCGCGCA	960
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OY	1032	CCGGGTGTAGCGCGAAGACCAAGCACTTCCTACTCTCTAGGCGACGACAAGAGACAGTGGC	1091
Db	1021	CCGGGTGTAGCGCGAAGACCAAGCACTTCCTACTCTCTAGGCGACMAAGAGACAGTGGC	1080
OY	1092	GCCCTCTCTCTACTAGCTCTCTGAGGCGCCAGCCTGACTGGCGCTCGAGGCTCGTGGGA	1151
Db	1081	GCCCTCTCTCTACTAGCTCTCTGAGGCGCCAGCCTGACTGGCGCTCGAGGCTCGTGGGA	1140
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QY 1932 CTTATCCCAAGGCTGACGGGCTGGCCGATTTGAAACATGAGTACGTGCTGGAGC 1991
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 QY 1992 CAGAAGTCCGAGAGAAAGAGGCGCCAGCTCTACACTGAGAGGTGAAGCACTGTT 2051
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 QY 2472 CAGTGGCTCTTTCAGAGCTTCTCTACGCTTCAATGTCACACAGCCGCTGAGCAAGGG 2531
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RESULT 2
 US-08-974-549A-1
 ; Sequence 1, Application US/08974549A
 ; Patent No. 6166178
 ; GENERAL INFORMATION:
 ; APPLICANT: Cech, Thomas R.
 ; APPLICANT: Lingner, Joachim

APPLICANT: Nakamura, Toru
 APPLICANT: Chapman, Karen B.
 APPLICANT: Morlin, Gregg B.
 APPLICANT: Harley, Calvin B.
 APPLICANT: Andrews, William H.
 TITLE OF INVENTION: Human Telomerase Catalytic Subunit
 NUMBER OF SEQUENCES: 727
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend and Crew LLP
 STREET: Two Embarcadero Center, Eighth Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834
 COMPUTER READABLE FORM:
 MEDIUM TYPE: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/974,549A
 FILING DATE: 19-NOV-1997
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/724,643
 FILING DATE: 01-OCT-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/844,419
 FILING DATE: 18-APR-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/846,017
 FILING DATE: 25-APR-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/851,843
 FILING DATE: 06-MAY-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/854,050
 FILING DATE: 09-MAY-1997
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 APPLICATION NUMBER: US 08/911,312
 FILING DATE: 14-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/912,951
 FILING DATE: 14-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/915,503
 FILING DATE: 14-AUG-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: WO PCT/US97/17618
 FILING DATE: 01-OCT-1997
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: WO PCT/US97/17885
 FILING DATE: 01-OCT-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Apple, Randolph Ted
 REGISTRATION NUMBER: 36,429
 REFERENCE/DOCKET NUMBER: 015389-002610US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 576-0200
 TELEFAX: (415) 576-0300
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 4015 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: CDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 56..3454
 OTHER INFORMATION: /product="hTERT"
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 OTHER INFORMATION: transcriptase (hTERT) catalytic protein

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QY	1332	AGCGGAGTCTGTGCGCGGGGAGAACCCCAAGGCTGTGTGGCGCGGCCCGCGAGAGGAGGA	1391
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QY	1392	CACACACCCCGTCGCTCGGAGACATGCTCTCCGACGACGACGACCCCTGGACAGTGA	1451
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QY	1452	CGGCTTCGTGGGGGCGCTGCTCGCGGCGCTGGTGGCCCCAGGCGCTCTGGGGCTCCAGCA	1511
Db	1441	CGGCTTCGTGGGGGCGCTGCTCGCGGCGCTGGTGGCCCCAGGCGCTCTGGGGCTCCAGCA	1500
QY	1512	CACGACAAAGCGCGCTTCCCTCAGGACACCCAAAGATTATCTTCCTTGGGGAAAGCATGCCA	1571
Db	1501	CACGACAAAGCGCGCTTCCCTCAGGACACCCAAAGATTATCTTCCTTGGGGAAAGCATGCCA	1560
QY	1572	GCTTCGCTGCGAGAGCTGTGAGCTGGAAATGAGCGCTGGGGGACATGCGCTTGGCTGGCGAG	1631
Db	1561	GCTTCGCTGCGAGAGCTGTGAGCTGGAAATGAGCGCTGGGGGACATGCGCTTGGCTGGCGAG	1620
QY	1632	GAGCCCAAGGGGTTGGCTGTTCGCGGCGCAGAGACCCGTCGCTGGCTGAGAGATCTGGC	1691
Db	1621	GAGCCCAAGGGGTTGGCTGTTCGCGGCGCAGAGACCCGTCGCTGGCTGAGAGATCTGGC	1680
QY	1692	CAAGTTCCTGCACGTGGCTGATGAGTGTAGCTGCTGAGCTGAGCTCAGCTCTTCTTTTA	1751
Db	1681	CAAGTTCCTGCACGTGGCTGATGAGTGTAGCTGCTGAGCTCAGCTCTTCTTTTA	1740
QY	1752	TGTCACGGAGACACAGCTTTCAAAAGAACAGGCTCTTTTCTTACCGGGAAGAGTGTCTGGAG	1811
Db	1741	TGTCACGGAGACACAGCTTTCAAAAGAACAGGCTCTTTTCTTACCGGGAAGAGTGTCTGGAG	1800
QY	1812	CAAGTTCGAAAGCATTTGGAAATCAGACACACTTTGAAGAGGGTGCAGCTGCGGGAGCTGTC	1871
Db	1801	CAAGTTCGAAAGCATTTGGAAATCAGACACACTTTGAAGAGGGTGCAGCTGCGGGAGCTGTC	1860
QY	1872	GGAAACAGAGGTCAGGCGAGCATTCGGGAAGCCAGGCGCCCGCTGCTGATCAGACTGTCG	1931
Db	1861	GGAAACAGAGGTCAGGCGAGCATTCGGGAAGCCAGGCGCCCGCTGCTGATCAGACTGTCG	1920
QY	1932	CTTCAATCCCCAAGCGCTGACGGGCTGCGGCCGATTTGTGAACATGGACTACGTCGTGGAGC	1991
Db	1921	CTTCAATCCCCAAGCGCGTGAAGGGCTGCGGCCGATTTGTGAACATGGACTACGTCGTGGAGC	1980
QY	1992	CAGAACGTCCTCGCAGAGAAAAGAGGGCGCAGCGCTCAGCTACCTCAGAGGGTGAAGGCACTGT	2051
Db	1981	CAGAACGTCCTCGCAGAGAAAAGAGGGCGCAGCGCTCAGCTACCTCAGAGGGTGAAGGCACTGT	2040
QY	2052	CAGCGTGTCTAACTACGAGCGGGGCGGGCGCCCGGCGCTCTGGGCGCTCTGTGTGGG	2111
Db	2041	CAGCGTGTCTAACTACGAGCGGGGCGGGCGCCCGGCGCTCTGGGCGCTCTGTGTGGG	2100
QY	2112	CCTGGACATTTTCCACAGAGGCGCTGGCGGACCTGTGCTGTGGTGTGGGGGCGCAGAGGCC	2171
Db	2101	CCTGGACATTTTCCACAGAGGCGCTGGCGGACCTGTGCTGTGGTGTGGGGGCGCAGAGGCC	2160
QY	2172	GCGCGCTAGCTGTACTTTGTCAAGGTGGATGTGACGGGCGCGTACGACACATCTCCCA	2231
Db	2161	GCGCGCTAGCTGTACTTTGTCAAGGTGGATGTGACGGGCGCGTACGACACATCTCCCA	2220
QY	2232	GGACAGGCTCACGAGAGTCACTGCCAGATATATAAACCAGAAACAGATCTCTGCTGGC	2291
Db	2221	GGACAGGCTCACGAGAGTCACTGCCAGATATATAAACCAGAAACAGATCTCTGCTGGC	2280
QY	2292	TGCGATATCCCTGTGTCTGCAAGAGGCCCGCATATGGCGACCTGCGCAAGGCGCTTCAAGAGCA	2351
Db	2281	TGCGATATCCCTGTGTCTGCAAGAGGCCCGCATATGGCGACCTGCGCAAGGCGCTTCAAGAGCA	2340
QY	2352	CGTCTCTACCTTGACAGACTCTCAGCGCTACATGCGACAGTTGCTGGCTCACTGCAGGA	2411
Db	2341	CGTCTCTACCTTGACAGACTCTCAGCGCTACATGCGACAGTTGCTGGCTCACTGCAGGA	2400
QY	2412	GACACAGCCCGGTGAGGGATGGCGCTGCTATGAGCAGAGAGCTCCCTCGAATGAGGCCAG	2471
Db	2401	GACACAGCCCGGTGAGGGATGGCGCTGCTATGAGCAGAGAGCTCCCTCGAATGAGGCCAG	2460
QY	2472	CAGTGGCCTCTTCGACGCTCTCTCAACGCTTCATGTGCTGCACACGCGCGCTGCATCAAGGG	2531

[illegible]

Db	1801	CAAGTTCAAAGCATTTGGATTCAGACAGACACTTGAAGAGGTGTACACTGTCCGGACGTGTTC	1860
QY	1872	GGAAGCAGAGAGTCAAGCAGCATGTGGGAAAGCCAGAGCCGCCCTGTCTGATCTCCAGACTCCG	1931
Db	1861	GGAAAGCAGAGAGTCAAGGAGCATGTGGGAAAGCCAGAGCCGCCCTGTCTGATCTCCAGACTCCG	1920
QY	1932	CTTCATATCCCAAGCGTACAGGGGTGGGGCCGATTGTGAACATGTGAATACGTGTGGGAGAC	1991
Db	1921	CTTCATATCCCAAGCGTACAGGGGTGGGGCCGATTGTGAACATGTGAATACGTGTGGGAGAC	1980
QY	1992	CAGAACGTTCCGAGAGAAAAAAGAGGGCCGAGCGCTCTACCTCGAGGGTGAAGGACACTGTT	2051
Db	1981	CAGAACGTTCCGAGAGAAAAAAGAGGGCCGAGCGCTCTACCTCGAGGGTGAAGGACACTGTT	2040
QY	2052	CAGGTTCTCAACTACAGAGGGGGCGGGGGCCCGGGCCCTCTGGGGGCGCTGTGTGTGGG	2111
Db	2041	CAGGTTCTCAACTACAGAGGGGGCGGGGGCCCGGGCCCTCTGGGGGCGCTGTGTGTGGG	2100
QY	2112	CTTGAGACGATATCCACAGGGCGCTGGGGCACCTTTCGTGTGCGTGTCCGGGCCAGGACCC	2171
Db	2101	CTTGAGACGATATCCACAGGGCGCTGGGGCACCTTTCGTGTGCGTGTCCGGGCCAGGACCC	2160
QY	2172	GCCGCGTGAAGCTGACTTGTGTCAAGTGGATGTGACGGGCGGTACGACACCATCCCCA	2231
Db	2161	GCCGCGTGAAGCTGACTTGTGTCAAGTGGATGTGACGGGCGGTACGACACCATCCCCA	2220
QY	2232	GGAAGAGCTACAGGAGGTATGCGCCAGCATCATCAAAACCCAGAAACAGCTACTGGGTGG	2291
Db	2221	GGACAGGCTACAGGAGGTATGCGCCAGCATCATCAAAACCCAGAAACAGCTACTGGGTGG	2280
QY	2292	TCGGTATGCGGTGGTCCAGAAAGGCCGCCCATG6GGCACGTCGCCAGAGGCTTCAAGAGCCA	2351
Db	2281	TCGGTATGCGGTGGTCCAGAAAGGCCGCCCATG6GGCACGTCGCCAGAGGCTTCAAGAGCCA	2340
QY	2352	CGTCTCACTTTCACAGAGCTTCCAGGCGTATGACAGCAGATTGTGTGTGTCTCAGTGTGAGCA	2411
Db	2341	CGTCTCACTTTCACAGAGCTTCCAGGCGTATGACAGCAGATTGTGTGTGTGTCTCAGTGTGAGCA	2400
QY	2412	GACCAGAGCCGCTAGAGGATGCCGTGTCATTCGAGAGAGACTCTCCCTGAATGAGGCCAG	2471
Db	2401	GACCAGAGCCGCTAGAGGATGCCGTGTCATTCGAGAGAGACTCTCCCTGAATGAGGCCAG	2460
QY	2472	CAGTGGCTTCTTGACAGCTTCTCTACGCTTCATGTGACCAACAGCCGCTGCGATCAGGGG	2531
Db	2461	CAGTGGCTTCTTGACAGCTTCTCTACGCTTCATGTGACCAACAGCCGCTGCGATCAGGGG	2520
QY	2532	CAAGTCCCTACGTCAGTGGCCAGGGGATCCCGAGGGGCTCATCTCTCCAGCTGTCTG	2591
Db	2521	CAAGTCCCTACGTCAGTGGCCAGGGGATCCCGAGGGGCTCATCTCTCCAGCTGTCTG	2580
QY	2592	CAGCCTGTGTACAGGGGACATGAGAAACAAGCTGTTGCGGGGATTCGGCGGGAGGGGCT	2651
Db	2581	CAGCCTGTGTGTACAGGGGACATGAGAAACAAGCTGTTGCGGGGATTCGGCGGGAGGGGCT	2640
QY	2652	GCTCTGTGCTTGGTGGATGATTTCTTGTGTTGGTGGACACTCACCTCAGCCAGCGAAAC	2711
Db	2641	GCTCTGTGCTTGGTGGATGATTTCTTGTGTTGGTGGACACTCACCTCAGCCAGCGAAAC	2700
QY	2712	CTTCTCTCAGGACCTGTCCAGAGGTGTCCCTGTGATGTGGCTGCGGGGTGAACATTGGGGA	2771
Db	2701	CTTCTCTCAGGACCTGTCCAGAGGTGTCCCTGTGATGTGGCTGCGGGGTGAACATTGGGGA	2760
QY	2772	GACAGTGTGTAACTTCCCTGTAGAAAGCAGAGGCCCTGGGTGGACAGGCTTTTGTTCAGAT	2831
Db	2761	GACAGTGTGTAACTTCCCTGTAGAAAGCAGAGGCCCTGGGTGGACAGGCTTTTGTTCAGAT	2820
QY	2832	GCCGGGCCACAGGCGCTAT	2848
Db	2821	GCCGGGCCACAGGCGCTAT	2837

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: Sequence 3 Application US/09572423B
: Patent No. 633399
:
: GENERAL INFORMATION:
: APPLICANT: Brett P. Monia
: APPLICANT: William A. Gaarde
: APPLICANT: Edward Wanciewicz
: TITLE OF INVENTION: ANTISENSE MODULATION OF TERT EXPRESSION
: FILE REFERENCE: ISPH-0462
: CURRENT APPLICATION NUMBER: US/09/572,423B
: CURRENT FILING DATE: 2000-05-16
:
: NUMBER OF SEQ ID NOS: 29
:
: SEQ ID NO 3
:
: LENGTH: 4015
:
: TYPE: DNA
:
: ORGANISM: Homo sapiens
:
: FEATURE:
:
: NAME/KEY: CDS
: LOCATION: (56)... (3454)
:
: US-09-572-423B-3

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Query Match	99.6%	Score 2837;	DB 4;	Length 4015;
Best Local Similarity	100.0%	Pred. No. 0;		
Matches 2837; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

QY	12	GCACGCGTGCCTCGTGCAGTGGGAGACCCCTGGCCCCCGGCACACCCCGGATGCC	71
Db	1	GCACGCGTGCCTCGTGCAGTGGGAGACCCCTGGCCCCCGGCACACCCCGGATGCC	60
QY	72	GCAGGCTCCCGCTGCAGGCGTGGCGTCCCTGCTGGAGACCACTACCGGAGTGTCT	131
Db	61	GCAGGCTCCCGCTGCAGGCGTGGCGTCCCTGCTGGAGACCACTACCGGAGTGTCT	120
QY	132	GCCGCTGAGCCAGTTCGTGCGGGCGCTGGGGCCCCAGGCGTGGCGGCTGTGCAGCGCG	191
Db	121	GCCGCTGAGCCAGTTCGTGCGGGCGCTGGGGCCCCAGGCGTGGCGGCTGTGCAGCGCG	180
QY	192	GGACCCGGCGGCTTTCGCGCGGCTGTGGGCCCACTGGCTGGTGTGCTGCTGGAGCG	251
Db	181	GGACCCGGCGGCTTTCGCGCGGCTGTGGGCCCACTGGTGTGCTGCTGGAGCG	240
QY	252	ACGGCGCCCCCGCCCGCCCTCTTCGCGCAGAGTGTCTGTGCGGAGAGAGTGTGTGC	311
Db	241	ACGGCGCCCCCGCCCGCCCTCTTCGCGCAGAGTGTCTGTGCGGAGAGAGTGTGTGC	300
QY	312	CCGAGTCTGTGCAGAGGCTGTGCAGACGGCGCGCGAAGAACGTGTGCGCTTCGAGCTTGC	371
Db	301	CCGAGTCTGTGCAGAGGCTGTGCAGACGGCGCGCGAAGAACGTGTGCGCTTCGAGCTTGC	360
QY	372	GCTGCTGTGAGCGGGGCGCGCGGGGGCCCCCGGAGGCTTTCACACACACGTGTGCAGCTA	431
Db	361	GCTGCTGTGAGCGGGGCGCGCGGGGGCCCCCGGAGGCTTTCACACACACGTGTGCAGCTA	420
QY	432	CCTGCCCAACACGGGTGACCGACGACTCGGGGGAGCGGGCGGTGGGGGCTGTGCTGTGCG	491
Db	421	CCTGCCCAACACGGGTGACCGACGACTCGGGGGAGCGGGCGGTGGGGGCTGTGCTGTGCG	480
QY	492	CCGGGTGGGCGACAGCTGTGTGTTCACCTGTGGACGCTGTGCGGCTCTTGTGTCTGT	551
Db	481	CCGGGTGGGCGACAGCTGTGTGTTCACCTGTGGACGCTGTGCGGCTCTTGTGTCTGT	540
QY	552	GGCTTCCCAAGCTGCGCTTACACAGGTGTGCGGGCGCGCTGTACACAGTGTGGCGTCCAC	611
Db	541	GGCTTCCCAAGCTGCGCTTACACAGGTGTGCGGGCGCGCTGTACACAGTGTGGCGTCCAC	600
QY	612	TCATGAGCCCGGCGCCGCGACACGGGTATGTGAGACCCCGAAGGGGTGTGGGATGTGAAAGGGG	671
Db	601	TCATGAGCCCGGCGCCGCGACACGGGTATGTGAGACCCCGAAGGGGTGTGGGATGTGAAAGGGG	660
QY	672	CTGGAAACATATGAGCTTCAGAGGAGGCGGGGTCTCCCTGTGGGCTGTGCAGGCCCGGGGTGCAG	731
Db	661	CTGGAAACATATGAGCTTCAGAGGAGGCGGGGTCTCCCTGTGGGCTGTGCAGGCCCGGGGTGCAG	720
QY	732	GAGGCGGCGGGGCGAGTGCACCCGCAAGTCTGTGCTGCTGCCAAGAGGCCACAGCGTGTGGCG	791

Db	721	GAGCGGGGGGGCAGTGGCAGCCGAAAGTCTCGCTTGCCCAAGAGGCCACAGGGCTGGCGC	780
Qy	792	TGCCCCGTGACCCGAGAGGGAGCGCCCTTGGGCAAGGGTCTGGGCCACACCGGGCAGAGC	851
Db	781	TGCCCTTGAGCGGAGGGAGCGCCGTTGGGCAAGGGTCTGGGCCACACCGGGCAGAGC	840
Qy	852	GCGTGACCCAGTAGTACCGTGGTCTCTGCTGTTGTCACTACCTCCAGACCCGGCCGAAGAAGC	911
Db	841	GCCTGAGACCGAGTAGTACCGTGGTCTCTGCTGTTGTCACTACCTCCAGACCCGGCCGAAGAAGC	900
Qy	912	CACCTCTTTGGAGGGTGGCGCTCTGTGGCAGCGGCACCTCCACCATTCCGTGGGCGGCA	971
Db	901	CACCTCTTTGGAGGGTGGCGCTCTGTGGCAGCGGCACCTCCACCATTCCGTGGGCGGCA	960
Qy	972	GCACACGAGGGGGCCCCCATCCACATAGCGGGCCACACGTCCCTGGGACACAGCTTGTCC	1031
Db	961	GCACACGAGGGGGCCCCCATCCACATAGCGGGCCACACGTCCCTGGGACACAGCTTGTCC	1020
Qy	1032	CCCGGTGATCCCGCAGACCAAGACACTTCCCTACTCCTCAGGCGCAAGAGAGCACTGCGC	1091
Db	1021	CCCGGTGATCCCGCAGACCAAGACACTTCCCTACTCCTCAGGCGCAAGAGAGCACTGCGC	1080
Qy	1092	GCCTCTCTTCTACTACGTCTCTGTAGAGCCAGCCTGACTGCGCTCGGAGGCTGTGGA	1151
Db	1081	GCCTCTCTTCTACTACGTCTCTGTAGAGCCAGCCTGACTGCGCTCGGAGGCTGTGGA	1140
Qy	1152	GACCATCTTTTGGGTTTCCAGGGCCCTGGATGCGAGGGACTCCCGGAGGTTGGCCCGCT	1211
Db	1141	GACCATCTTTTGGGTTTCCAGGGCCCTGGATGCGAGGGACTCCCGGAGGTTGGCCCGCT	1200
Qy	1212	GCCCAGCGCTACTGCGAAATGCGGCGCCCTGTTTCTGTGAGCTGCTTGGGAACAACGCGCA	1271
Db	1201	GCCCAGCGCTACTGCGAAATGCGGCGCCCTGTTTCTGTGAGCTGCTTGGGAACAACGCGCA	1260
Qy	1272	GTGCCCCCTACGGGGGTGCTCTTCAGAGGACATGCCCCGTGGGACTGGGGTACACCCACGC	1331
Db	1261	GTGCCCCCTACGGGGGTGCTCTTCAGAGGACATGCCCCGTGGGACTGGGGTACACCCACGC	1320
Qy	1332	AGCCGCTGTCTGTGTCGCCCGGAGAAAGCCCAAGGGCTGTGTGGCGGCCCCCGCAGAGAGAGA	1391
Db	1321	AGCCGCTGTCTGTGTCGCCCGGAGAAAGCCCAAGGGCTGTGTGGCGGCCCCCGCAGAGAGAGA	1380
Qy	1392	CACAGACCCCGCTGGCTGGTGTGACAGCTGTCCGCCAGCAGACAGACCCCTGGCAGGTGA	1451
Db	1381	CACAGACCCCGCTGGCTGGTGTGACAGCTGTCCGCCAGCAGACAGACCCCTGGCAGGTGA	1440
Qy	1452	CGGCTGCTGTGGGGGCTGCTGCGCGCGGCTGTGGCCCCCAGGCGCTGTGGGGCTCCAGGCA	1511
Db	1441	CGGCTGCTGTGGGGGCTGCTGCGCGCGGCTGTGGCCCCCAGGCGCTGTGGGGCTCCAGGCA	1500
Qy	1512	CACGAAACGCGCTTCTCAGAGAACACCAAGAGTTCTCTCCCTGGGGAAAGATGCCAA	1571
Db	1501	CACGAAACGCGCGCTTCTCAGAGAACACCAAGAGTTCTCTCCCTGGGGAAAGATGCCAA	1560
Qy	1572	GCTTCGTGTGAGAGGCTGACGTGGAATGAGGTGGGGGACGTGGCTTGGTGGCGGAG	1631
Db	1561	GCTTCGTGTGAGAGGCTGACGTGGAATGAGGTGGGGGACGTGGCTTGGTGGCGGAG	1620
Qy	1632	GAGCCCAAGGGGTTGGCTGTTCGCGCGCCAGAGACACCGTGTGGGTGAGAGATCTGGC	1691
Db	1621	GAGCCCAAGGGGTTGGCTGTTCGCGCGCCAGAGACACCGTGTGGGTGAGAGATCTGGC	1680
Qy	1692	CAAGTCTCTGACATGCGCTGATGATGTGTACGTGTGAGCTGCTCAGAGTCTTCTTTTA	1751
Db	1681	CAAGTCTCTGACATGCGCTGATGATGTGTGTGAGCTGCTCAGAGTCTTCTTTTA	1740
Qy	1752	TGTCACGGAGACACAGTTTCAAAGAAGCAGCTCTTTTCTACCGGAAAGATGTCTGGAG	1811
Db	1741	TGTCACGGAGACACAGTTTCAAAGAAGCAGCTCTTTTCTACCGGAAAGATGTCTGGAG	1800
Qy	1812	CAGTGTCAAAGCATTTGGATTCAGACAGACACTTGAAGAGGGTGCAGCTGCGGAGCTTC	1871

QY	432	CTGCGCCAAACAGGTGACCGACGCACTGCGGGGAGCGGGGCGTGGGGGCGTGTCTGCG	491
Db	421	CCTGCGCCAAACAGGTGACCGACGCACTGCGGGGAGCGGGGCGTGGGGGCGTGTCTGCG	480
QY	492	CCGGGTGGGGGAGACGCGTGGGTTCAACGTCTGTGGCAACGCGTGGGGCGCTTTTGTGGCGT	551
Db	481	CCGGGTGGGGGAGACGCGTGTGGTTCAACGTCTGTGGCAACGCGTGGGGCGCTTTTGTGGCGT	540
QY	552	GGCTGCCAGCTGCGGCTTACACAGGTGTGCGGGGCGCGCGCTGTACACAGCGTCGGCGTGCAC	611
Db	541	GGCTGCCAGCTGCGGCTTACACAGGTGTGCGGGGCGCGCGCTGTACACAGCTCGGCGTGCAC	600
QY	612	TCAGGGCCGGCCCCCGCCACACGCTAGTGGACCCCGAAGGCGCTGTGGATGCGAAGGGCG	671
Db	601	TCAGGGCCGGCCCCCGCCACACGCGTAGTGGACCCCGAAGGCGCTGTGGATGCGAAGGGCG	660
QY	672	CTGGAAACCATATGCGCCAGAGGAGGGGCGGGGTTCCCTCGGCGCTGGCAGCCCGGGTGGAG	731
Db	661	CTGGAAACCATATGCGCCAGAGGAGGGGCGGGGTTCCCTCGGCGCTGGCAGCCCGGGTGGAG	720
QY	732	GAGCGCGCGGGGGGAGTGGCAGCGACCGCAAGCTGCGTTGCCCAAGAGGCGCCAGCGCTGGCGC	791
Db	721	GAGCGCGCGGGGGGAGTGGCAGCGACCGCAAGCTGCGTTGCCCAAGAGGCGCCAGCGCTGGCGC	780
QY	792	TGCCCTGTAGCGCGGAGCGGAGCGCCGTTTGGGAGAGGGGTCTGTGGCCACACCGGGCAGAGC	851
Db	781	TGCCCTGTAGCGCGGAGCGGAGCGCCGTTTGGGAGAGGGGTCTGTGGCCACACCGGGCAGAGC	840
QY	852	GCGTGGACCCGAGTGAACCGTGGTTCTGTGTGTGTGTACCTGTCCAGACCGCGCGCAAGAAGC	911
Db	841	GCGTGGACCCGAGTGAACCGTGGTTCTGTGTGTGTGTACCTGTCCAGACCGCGCGCAAGAAGC	900
QY	912	CACCTCTTTTGGAGGGGTGGCGCTCTTGTGGACCGCGCACCTCCACCCATTCGGGGGCGCGCA	971
Db	901	CACCTCTTTTGGAGGGGTGGCGCTCTTGTGGACCGCGCACCTCCACCCATTCGGGGGCGCGCA	960
QY	972	GCACCCAGCGGGGCGCCCGCATCCACATCGCGGCGCACACGTCCTGTGGAGACAGCCTTGTCC	1031
Db	961	GCACCCAGCGGGGCGCCCGCATCCACATCGCGGCGCACACGTCCTGTGGAGACAGCCTTGTCC	1020
QY	1032	CCGGGTGTAGCGCGAGAACCAAGCACTTCCTACTCCAGGCGGCAACAAGAGCAGCTGTGC	1091
Db	1021	CCGGGTGTAGCGCGAGAACCAAGCACTTCCTACTCCAGGCGGCAACAAGAGCAGCTGTGC	1080
QY	1092	GCCTTCCTCTACTACGTACGCTCTGTAGAGCGCCAGCGCTGCATGGCGCTCGAGAGCTGTGGA	1151
Db	1081	GCCTTCCTCTACTACGTACGCTCTGTAGAGCGCCAGCGCTGCATGGCGCTCGAGAGCTGTGGA	1140
QY	1152	GACCATCTTTTGTGGGTTCCAGGCGCGCTGTGANTCCAGGAGCACTCCCGCAGGTTGCCCGGCT	1211
Db	1141	GACCATCTTTTGTGGGTTCCAGGCGCGCTGTGANTCCAGGAGCACTCCCGCAGGTTGCCCGGCT	1200
QY	1212	GGCCGAGGCGTACGTGGCAAAATGCGCGCCCTGTTCTGTGAGTGGCTTGTGGGAACACAGCGCA	1271
Db	1201	GGCCGAGGCGTACGTGGCAAAATGCGCGCCCTGTTCTGTGAGTGGCTTGTGGGAACACAGCGCA	1260
QY	1272	GTGGCCCTACAGGGGTGCTCTCTCAAGACGCACTGCGCGTGTGAGCTGGGCTGACCCGAGC	1331
Db	1261	GTGGCCCTACAGGGGTGCTCTCTCAAGACGCACTGCGCGTGTGAGCTGGGCTGACCCGAGC	1320
QY	1332	AGCCGGGTGTGTGTGCCCGGGAGAAAGCCCAAGGCTGTGTGGCGGCGCCCGAGAGAGAGA	1391
Db	1321	AGCCGGGTGTGTGTGCCCGGGAGAAAGCCCAAGGCTGTGTGGCGGCGCCCGAGAGAGAGA	1380
QY	1392	CACAGACCCCCGCTGGCTGT	1451
Db	1381	CACAGACCCCCGCTGGCTGT	1440
QY	1452	CGGCTCTGTGGGGGCTGCTGTGCGCGGGCTGTGTGCGCCCAAGGCGCTGTGGGGCTTCAGAGCA	1511
Db	1441	CGGCTCTGTGGGGGCTGCTGTGCGCGGGCTGTGTGCGCCCAAGGCGCTCTTGTGGGGCTTCAGAGCA	1500
QY	1512	CACGAAACGCGCTTCTCAGAGAAACCCAGAAAGTTCACTCCCTGGGGAAGCATGCCAA	1571

Db	1501	CAAGAAACGCGCTTCCTCAGAGAACACCCMAAGTTCATCTCCCTGGGGAAGCATGCCAA	1560
OY	1572	GCTCCGCTGAGAGAGCTGACGTGGAAATGAGGGTGGGGACACGCGTTGGCGCCGAC	1631
Db	1561	GCTCTCGCTGAGAGAGCTGACGTGGAAATGAGGGTGGGGACACGCGTTGGCGCCGAC	1620
OY	1632	GAGCCCAAGGGGTTGGCTGTGTTCGGGCGCAGACACCGTGTGGTGGAGAGATCTGGC	1691
Db	1621	GAGCCCAAGGGGTTGGCTGTGTTCGGGCGCAGACACCGTGTGGTGGAGAGATCTGGC	1680
OY	1692	CAAGTCTCTGACCTGAGCTGATGAGTGTGTACGTGTGAGCTGTCAAGTCTTCTTTTA	1751
Db	1681	CAAGTCTCTGACCTGAGCTGATGAGTGTGTGTACGTGTGAGCTGTCAAGTCTTCTTTTA	1740
OY	1752	TGTCAACGAGAACACAGCTTTCAAAAGAACAGGCTCTTTTCTACCGGAAAGATGTCTGAG	1811
Db	1741	TGTCAACGAGAACACAGCTTTCAAAAGAACAGGCTCTTTTCTACCGGAAAGATGTCTGAG	1800
OY	1812	CAAGTGTGAAGACATTTGGAAATCAGACAGCATTTGAAGAGGGTGTGAGCTGCGGGAGCTGC	1871
Db	1801	CAAGTGTGAAGACATTTGGAAATCAGACAGCATTTGAAGAGGGTGTGAGCTGCGGGAGCTGC	1860
OY	1872	GGAAGCAGAGGTCAAGCAGCATCGGGAAACCAAGGCCGCCCTGTGTGACGTCAAGACTCG	1931
Db	1861	GGAAGCAGAGGTCAAGCAGCATCGGGAAACCAAGGCCGCCCTGTGTGACGTCAAGACTCG	1920
OY	1932	CTTCAATCCCCAAGCCTTGACGGGGCTGCGGCCCATTTGTGAACATGTGACTGTGTGGAGC	1991
Db	1921	CTTCAATCCCCAAGCCTTGACGGGGCTGCGGCCCATTTGTGAACATGTGACTGTGTGGAGC	1980
OY	1992	CAGAAAGTTCGCGCAGAGAAAGAGGGCGCGACGTCCTCACTCGAGAGGGTGAAGGACACTGT	2051
Db	1981	CAGAAAGTTCGCGCAGAGAAAGAGGGCGCGACGTCCTCACTCGAGAGGGTGAAGGACACTGT	2040
OY	2052	CAGCGTGTCAACTACGAGCGGGGCGGGCGCCCGGCTCTGTGGGCGCTGTGTGTGG	2111
Db	2041	CAGCGTGTCAACTACGAGCGGGGCGGGCGCCCGGCTCTGTGGGCGCTGTGTGTGG	2100
OY	2112	CCTGGACATATATCCACAGGGGCTGGCGCCACTTGTGTGTGGTGTGGCGGGCCCAAGACC	2171
Db	2101	CCTGGACATATATCCACAGGGGCTGGCGCCACTTGTGTGTGGTGTGGCGGGCCCAAGACC	2160
OY	2172	GCCGCGTACAGTGTACTTGTCTCAAGAGTGGATGTGACGGGGCGCGTACGACACATCTCCCA	2231
Db	2161	GCCGCGTACAGTGTACTTGTCTCAAGAGTGGATGTGACGGGGCGCGTACGACACATCTCCCA	2220
OY	2232	TCCGATACCCGTGGTTCGAAAGAGCCGCCCATATGGGCAAGTCCGCAAGGCTTCAAGAGCA	2291
Db	2221	GGACAGGCTCAAGGAGTCAATGCCAGCATCAAAACCCAGAACACGTACTCGTGGC	2280
OY	2292	TCCGATACCCGTGGTTCGAAAGAGCCGCCCATATGGGCAAGTCCGCAAGGCTTCAAGAGCA	2351
Db	2281	TCCGATACCCGTGGTTCGAAAGAGCCGCCCATATGGGCAAGTCCGCAAGGCTTCAAGAGCA	2340
OY	2352	CGTCTCTACTTGAACAGACTCTCAAGCCCTACATGGAGACAGTTCGGGCTCACTCTGACAGA	2411
Db	2341	CGTCTCTACTTGAACAGACTCTCAAGCCCTACATGGAGACAGTTCGGGCTCACTCTGACAGA	2400
OY	2412	GACCAAGCCGCTGAGGAGTGCCTGTCTATGAGAGAGACTCTTCCCTGAATGAGGCCAG	2471
Db	2401	GACCAAGCCGCTGAGGAGTGCCTGTCTATGAGAGAGACTCTTCCCTGAATGAGGCCAG	2460
OY	2472	CAGTGGCCTCTTCCAGACGTTCTCTACGCTTATGTGGCCACACAGCCGCTGGCATACAGGG	2531
Db	2461	CAGTGGCCTCTTCCAGACGTTCTCTACGCTTATGTGGCCACACAGCCGCTGGCATACAGGG	2520
OY	2532	CAAGTCTACAGTCCAGTCCAGAGGGATCCCGCAGAGGCTCAATCTCTCAACAGCTGCCTG	2591
Db	2521	CAAGTCTACAGTCCAGTCCAGAGGGATCCCGCAGAGGCTCAATCTCTCAACAGCTGCCTG	2580
OY	2592	CAGCGTGTGCTACGGCGCATGTGAAACAGCTGTTCGGGGATTCGGCGGAGCGGCT	2651

Dd	2581	CAGCGTGTGCTACGGCCGCAATGAGAAACAAGCTGTTTCGGGGAGATTGCGGGGACGGCCT	2640
Qy	2652	GCTCGTGCGTTGGTNGATGATTTCTTGTTGGTAGACACCCTCACCTCACGCCACGGGAAC	2711
Dd	2641	GCTCGTGCGTTGGTNGATGATTTCTTGTTGGTAGACACCCTCACCTCACGCCAGGGAAC	2700
Qy	2712	CTTCCCTAAGAACCCCTGGTCCGAGAGTGTCTTGATATGCTGTGCCTGTGAACCTTGCAGAA	2771
Dd	2701	CTTCCCTAAGAACCCCTGGTCCGAGAGTGTCTTGATATGCTGTGCCTGTGAACCTTGCAGAA	2760
Qy	2772	GACAGTGTGAACCTTCCCTGTAGAAGACGAGCCCTGGGTGGACAGCGCTTTGTTCAGAT	2831
Dd	2761	GACAGTGTGAACCTTCCCTGTAGAAGACGAGCCCTGGGTGGACAGCGCTTTGTTCAGAT	2820
Qy	2832	GCCGGCCCCACGGCCTAT	2848
Dd	2821	GCCGGCCCCACGGCCTAT	2837
RESULT 7			
US-09-675-321-1			
Sequence 1, Application US/09675321			
Patent No. 6440735			
GENERAL INFORMATION:			
APPLICANT: Gaeta, Federico C.A.			
APPLICANT: Genon Corporation			
TITLE OF INVENTION: Methods and Compositions for Eliciting an Immune			
TITLE OF INVENTION: Response to a Telomerase Antigen			
FILE REFERENCE: 015389-003500PC			
CURRENT APPLICATION NUMBER: US/09/675,321			
CURRENT FILING DATE: 2000-09-28			
PRIOR APPLICATION NUMBER: US 60/112,006			
PRIOR FILING DATE: 1998-03-31			
PRIOR APPLICATION NUMBER: WO PCT/US99/06898			
PRIOR FILING DATE: 1999-03-30			
NUMBER OF SEQ ID NOS: 2			
SOFTWARE: Patentin Ver. 2.0			
SEQ ID NO 1			
LENGTH: 4015			
TYPE: DNA			
ORGANISM: Homo sapiens			
FEATURE:			
NAME/KEY: CDS			
LOCATION: (56)..(3454)			
OTHER INFORMATION: human telomerase reverse transcriptase (hTERT)			
US-09-675-321-1			
Query Match			
Best Local Similarity 99.6%; Score 2837; DB 4; Length 4015;			
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
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Qy	72	GCGGCGTCCCGCTGCGCGAGCGCGTGGCTCCCTGTGTGGCAGCACTACCGAGAGTCT	131
Dd	61	GCGGCGTCCCGCGTGGCGAGCGCGTGGCTCCCTGTGTGGCAGCACTACCGAGAGTCT	120
Qy	132	GCCGCTGGCAGCTTGTGTGGGCGCTTGGGCGCCCAAGGCGTGGCGGCTGTGTGACGCGG	191
Dd	121	GCCGCTGGCAGCTTGTGTGGGCGCTTGGGCGCCCAAGGCGTGGCGGCTGTGTGACGCGG	180
Qy	192	GGACCGCGGCGCTTTCGCGCGGCGTGTGTGGCCAGTGGCTGTGTGTGCTTGTGGAGCG	251
Dd	181	GGACCGCGGCGCTTTCGCGCGGCGTGTGTGGCCAGTGGCTGTGTGTGCTTGTGGAGCG	240
Qy	252	ACGGCGCGCGCGCGCGCGCGCTTTCGCGCAGGTGTCTGTGCGTGAAGAGAGTGTGGC	311
Dd	241	ACGGCGCGCGCGCGCGCGCGCTTTCGCGCAGGTGTCTGTGCGTGAAGAGAGTGTGTGGC	300
Qy	312	CCGAGTGTGTGAGAGGCTGTGTGAGCGCGGCGCGAAGAACGTGTGTGCGCTTGTGCG	371

Db	301	CCGAGTCTGCAGAGGCTGTGCGAGCGGCGGAGAAAGCTGCTGGCCCTTTCGGCTTTCG	360
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Db	361	GCTGTGTGAGCGGGGCGCGGGGGGCGCCCGCCGAGAGCCCTTGTACACACAGCGTGGCAGCTA	420
QY	432	CCTGCCCAACAGGTTGACCGACGACATGCGGGGGAGCGGGGCGTGGGGGCTGCTGTGCG	491
Db	421	CCTGCCCAACAGGTTGACCGACGACATGCGGGGGAGCGGGGCGTGGGGGCTGCTGTGCG	480
QY	492	CCGGGTGGGGACAGACGCGTGGTTTCACGTCGTGGACAGCGTGGCGCGGCTCTTTTGTGCGGT	551
Db	481	CCGGGTGGGGACAGACGCGTGGTTTCACGTCGTGGACAGCGTGGCGCGGCTCTTTTGTGCGGT	540
QY	552	GCGTCCCAAGTCGCGCTTACAGAGTGTGGGGCGCGCCCGCTGTACAGCTCGGCGCTGCGAC	611
Db	541	GCGTCCCAAGTCGCGCTTACAGAGTGTGGGGCGCGCCCGCTGTACAGCTCGGCGCTGCGAC	600
QY	612	TCAGGCGCGCGCGCGCGCCACACGCTTATGTGACCCCGAAAGCGTCTGGGATGTGAAAGGGC	671
Db	601	TCAGGCGCGCGCGCGCGCCACACGCTTATGTGACCCCGAAAGCGTCTGGGATGTGAAAGGGC	660
QY	672	CTGGAAACCATATAGCGTACAGGGAGGGCGGGGGTCCCGCTGGGCGCTGCGACCCCGGGTGGAG	731
Db	661	CTGGAAACCATATAGCGTACAGGGAGGGCGGGGGTCCCGCTGGGCGCTGCGACCCCGGGTGGAG	720
QY	732	GAGGCGCGGGGGCGAGTGTGCACGCCAAGCTGTCCCTTGTCCCAAGAGGGCCACAGCGCTGGCG	791
Db	721	GAGGCGCGGGGGCGAGTGTGCACGCCAAGCTGTCCCTTGTCCCAAGAGGGCCACAGCGCTGGCG	780
QY	792	TGCCCCGTGAGCCGGAGCGGAGCGCCGTTTGGGCGAGGGGCTCTGGGCCACCCCGGGCAGAGC	851
Db	781	TGCCCCGTGAGCCGGAGCGGAGCGCCGTTTGGGCGAGGGGCTCTGGGCCACCCCGGGCAGAGC	840
QY	852	GCGTGGACCGAGTATACGTTGGTTTCTGTGTGTGTGTACGTCGACGCGGACCGCCCGCAAGAAC	911
Db	841	GCGTGGACCGAGTATACGTTGGTTTCTGTGTGTGTGTACGTCGACGCGGACCGCCCGCAAGAAC	900
QY	912	CACCTCTTTGGAGGGTGGCGCTCTGTGGACCGCGCACATCCACCATTCCGTTGGGGCGCGCA	971
Db	901	CACCTCTTTGGAGGGTGGCGCTCTGTGGACCGCGCACATCCACCATTCCGTTGGGGCGCGCA	960
QY	972	GCACCAGCGGGGCGCCCGCCATCCACATGCGGGGCACACAGTCCCTTGGGACACAGCCCTTGTCC	1031
Db	961	GCACCAGCGGGGCGCCCGCCATCCACATGCGGGGCACACAGTCCCTTGGGACACAGCCCTTGTCC	1020
QY	1032	CCCGGTGTACGCCGAGACCAAGACACTTCTTACTCTGACGAGGCAACAAGAGACAGCTGCG	1091
Db	1021	CCCGGTGTACGCCGAGAGCAAGACACTTCTTACTCTGACGAGGCAACAAGAGAGCAAGCTGCG	1080
QY	1092	GCGCCCTCTCTACGTCGTCGTGAGGCGCCAGCGTGCATGCGGGCGCTGGAGGGCGCGTGGGA	1151
Db	1081	GCGCCCTCTCTACTAGCTCTTCTGAGGGCCACGCTGTGACGCTCTGGAGGCTCTGTGGGA	1140
QY	1152	GACCATCTTCTGGGTTTCCAGGCGCCGTGATGCCAGGAGACTCCCGCAGAGTTGCCCGCCCT	1211
Db	1141	GACCATCTTCTGGGTTTCCAGGCGCCGTGATGCCAGGAGACTCCCGCAGAGTTGCCCGCCCT	1200
QY	1212	GCCCCAGCGCTACTGCGCAATATGCGGCGCCCTTCTTCTGAGAGCTGTTTGGGAACACAGCGCA	1271
Db	1201	GCCCCAGCGCTACTGCGCAATATGCGGCGCCCTTCTTCTGAGAGCTGTTTGGGAACACAGCGCA	1260
QY	1272	GTCGCCCTACAGGGGGTGCCTTCAAGAGCGACATGCCCCCTGTGAGACTCGGGCAACCCAGC	1331
Db	1261	GTCGCCCTACAGGGGGTGCCTTCAAGAGCGACATGCCCCCTGTGAGACTCGGGCAACCCAGC	1320
QY	1332	AGCCGCTGTCTGTCCCGGAGAAAGCCCAAGGCGTCTGTGGCGCGCCCGCAGAGAGAGGA	1391
Db	1321	AGCCGCTGTCTGTCCCGGAGAAAGCCCAAGGCGTCTGTGGCGCGCCCGCAGAGAGAGGA	1380
QY	1392	CACAGACCCCGTGTGCTGTGTGACGTCTCCGACAGACAGACAGCCCTTGGCAGGTGA	1451
Db	1381	CACAGACCCCGTGTGCTGTGTGACGTCTCCGACAGACAGACAGCCCTTGGCAGGTGA	1440

OY	1452	GGGTTGTGGGGCCCGCTGGGCCGGGCTGGTGCCTCCCAAGCCTCTGGGGCTCAGACA	1511
Db	1441	CGGCTGTGTGGGGCCCTGGCTGGCCGGCTGGTCCCCCAAGCCTCTGGGGCTCAGACA	1500
OY	1512	CAACGAACGGCGCTTCCTCAGGAACACCAGAAGATTCATCTCCCTGGGGAGCATGCGAA	1571
Db	1501	CAACGAACGGCGCTTCCTCAGGAACACCAGAAGATTCATCTCCCTGGGGAGCATGCGAA	1560
OY	1572	GCTCTGGCTGCAGAGACTGACGTGGGAAGATGAGCGTGCGGGACTGCGCTTGGCTGCAG	1631
Db	1561	GCTCTGCCCTCAGAGAGCTGACGTGGGAAGATGAGCGTGCGGGACTGCGCTTGGCTGCAG	1620
OY	1632	GAGCCCAAGGGGTTGGCTGTGTCCGGCCGCGAGACACCGTCTGGGTGGAGATCTGGGC	1691
Db	1621	GAGCCCAAGGGGTTGGCTGTGTGTCCGGCCGCGAGACACCGTCTGGGTGGAGATCTGGGC	1680
OY	1692	CAAGTTCCTGTGACTGGGTGATGAGTGTGTACGTGTGAGCTGCTCAGGTCTTCTTTTA	1751
Db	1681	CAAGTTCCTGTGACTGGGTGATGAGTGTGTGTACGTGTGAGCTGCTCAGGTCTTCTTTTA	1740
OY	1752	TGTACAGGAGACCAAGCTTTCAAAGAACAAGCCTTTTTTCTACCGGAAGATGTCTGGAG	1811
Db	1741	TGTACAGGAGACCAAGCTTTCAAAGAACAAGCCTTTTTTCTACCGGAAGATGTCTGGAG	1800
OY	1812	CAAGTTCCAAAGCATTTGGAATTCAGACAGACATTGAAGGGGTGCAGCTGCGGGAGCTGC	1871
Db	1801	CAAGTTCCAAAGCATTTGGAATTCAGACAGACATTGAAGGGGTGCAGCTGCGGGAGCTGC	1860
OY	1872	GGAAAGCAGAGGTACAGGCAGCATCGGGAAAGCCAGGCCCGCTGCTGACGTCCAGACTCCG	1931
Db	1861	GGAAAGCAGAGGTACAGGCAGCATCGGGAAAGCCAGGCCCGCTGCTGACGTCCAGACTCCG	1920
OY	1932	CTTCATATCCCAGAGCGCTACGGGGCTGCGCGCACATTTGTGAACATGTGACATACGTGCGGGAGC	1991
Db	1921	CTTCATATCCCAGAGCGCTACGGGGCTGCGCGCGATTTGTGAACATGTGACATACGTGCGGGAGC	1980
OY	1992	CAGAACGTTCCGCGAGAGAAAAAGAGGGCGCGAGCGTCTCACTCGAAGGTTGAAGGCACTGTT	2051
Db	1981	CAGAACGTTCCGCGAGAGAAAAAGAGGGCGCGAGCGTCTCACTCGAAGGTTGAAGGCACTGTT	2040
OY	2052	CAGGTTCTCAACATCAGAGGGGGGGGGCGCGCGCGCTCTGGGGCGCTCTGTGCTGGG	2111
Db	2041	CAGGTTCTCAACATCAGAGGGGGGGGGCGCGCGCGCTCTGGGGCGCTCTGTGCTGGG	2100
OY	2112	CTTGAGAGATATCCACAGGGGCGTGGCGCACCTTGTGCTGTGTGGGGGCCAGAGACC	2171
Db	2101	CTTGAGAGATATCCACAGGGGCGTGGCGCACCTTGTGCTGTGTGGGGGCCAGAGACC	2160
OY	2172	GCGGCTTGAGCTGTACTTTGTCCAAGGTGAGTGTACGGGGCGCGTACGACACATCCCCA	2231
Db	2161	GCGGCTTGAGCTGTACTTTGTCCAAGGTGAGTGTACGGGGCGCGTACGACACATCCCCA	2220
OY	2232	GGACAGGCTCAGCGAAGGTGATTCGCGCACATCATAAACCCCAAGAACGTTACTCGTGGC	2291
Db	2221	GGACAGGCTCAGCGAAGGTGATTCGCGCACATCATAAACCCCAAGAACGTTACTCGTGGC	2280
OY	2292	TGCGTATGCGGTGGTCCAGAAAGCGCGCCATGGGACGTCGCGCAAGGCGCTTCAAGAGCA	2351
Db	2281	TGCGTATGCGGTGGTCCAGAAAGCGCGCCCATGGGACGTCGCGCAAGGCGCTTCAAGAGCA	2340
OY	2352	CGTCTCAACCTTGACAGACCTCCAGCGCGTACATCGACAGATTCGTGGCTCACCCTGCAGGA	2411
Db	2341	CGTCTCAACCTTGACAGACCTCCAGCGCGTACATCGACAGATTCGTGGCTCACCCTGCAGGA	2400
OY	2412	GACCAAGCCGCGTGAAGGATGCCGTGCTCATCGACCAAGCTCTCCCTGATGAGGGCAG	2471
Db	2401	GACCAAGCCGCGTGAAGGATGCCGTGCTCATCGACCAAGCTCTCCCTGATGAGGGCAG	2460
OY	2472	CAGTGGGCTCTTCGACGTCTTCTCAGCTTCATGTGCGCACACAGCGCGTGGCGCATACAGGG	2531
Db	2461	CAGTGGGCTCTTCGACGTCTTCTCAGCTTCATGTGCGCACACAGCGCGTGGCGCATACAGGG	2520

QY	2532	CAATCTCTAGTCCAGTCCAGGCGGATCCCGCAGAGGCTCCATCTCTCCAAAGCTGCTGTG	2591
Db	2521	CAATCTCTAGTCCAGTCCAGGCGGATCCCGCAGAGGCTCCATCTCTCCAAAGCTGCTGTG	2580
QY	2592	CAGCCTTGCTACGGCGACATGAGAAACAAGCTTTTTCGGGGGATTCGGCGGGACGGGCT	2651
Db	2581	CAGCCTTGCTACGGCGACATGAGAAACAAGCTTTTTCGGGGGATTCGGCGGGACGGGCT	2640
QY	2652	GCCTCTCGTTTGGTGGATGATTCTCTGTTGGTGACACACCTCACCCTCACCCACGGGAAAC	2711
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QY	2712	CTTCTCTAGGAACTCGGTCCGAGGTGTCCCTGAGTATGGCTGGCTGGTGAACCTTGGCGAA	2771
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QY	2772	GACAGTGTGAACCTTCCCTGTAGAAGACGAGGCGCTGGTGGACAGGCTTTTGTTCAGAT	2831
Db	2761	GACAGTGTGAACCTTCCCTGTAGAAGACGAGGCGCTGGTGGACAGGCTTTTGTTCAGAT	2820
QY	2832	GCGGGCCACGAGCCTAT	2848
Db	2821	GCGGGCCACGAGCCTAT	2837

RESULT 8
 US-09-052-919-1
 : Sequence 1, Application US/09052919
 : Patent No. 6444650
 : GENERAL INFORMATION:
 : APPLICANT: Cech, Thomas R.
 : APPLICANT: Lingner, Joachim
 : APPLICANT: Nakamura, Toru
 : APPLICANT: Chapman, Karen B.
 : APPLICANT: Morin, Gregg B.
 : APPLICANT: Harley, Calvin B.
 : APPLICANT: Andrews, William H.
 : TITLE OF INVENTION: Antisense Compositions for Detecting and
 : TITLE OF INVENTION: Inhibiting Telomerase Reverse Transcriptase
 : NUMBER OF SEQUENCES: 72
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Townsend and Crew LLP
 : STREET: Two Embarcadero Center, Eighth Floor
 : CITY: San Francisco
 : STATE: California
 : COUNTRY: USA
 : ZIP: 94111-3834
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: PatentIn Release #1.0, Version #1.30
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/09/052,919
 : FILING DATE: 31-MAR-1998
 : CLASSIFICATION: 435
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/724,643
 : FILING DATE: 01-OCT-1996
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/844,419
 : FILING DATE: 18-APR-1997
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/846,017
 : FILING DATE: 25-APR-1997
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/851,843
 : FILING DATE: 06-MAY-1997
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/854,050
 : FILING DATE: 09-MAY-1997
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 08/911,312

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1992 CAGAACGTTCCGAGAGAAAGAGGCGCGAGCGCTTACCTTGAGGGTGAAGGCACTGTT 2051
1981 CAGAACGTTCCGAGAGAAAGAGGCGCGAGCGCTTACCTTGAGGGTGAAGGCACTGTT 2040
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QY 2832 GCCGGCCACGCGCTAT 2848
DB 2821 GCCGGCCACGCGCTAT 2837

RESULT 9
US-08-912-951-1
Sequence 1, Application US/08912951
Patent No. 6475789
GENERAL INFORMATION:
APPLICANT: Cechn, Thomas R.
APPLICANT: Lingner, Joachim
APPLICANT: Nakamura, Toru
APPLICANT: Chapman, Karen B.
APPLICANT: Morin, Gregg B.
APPLICANT: Harley, Calvin
APPLICANT: Andrews, William H.
TITLE OF INVENTION: HUMAN TELOMERASE CATALYTIC SUBUNIT: DIAGNOSTIC AND
NUMBER OF SEQUENCES: 335
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: United States of America
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/912,951
FILING DATE: 14-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/854,050
FILING DATE: 09-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-002600US

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4015 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 56..3454
OTHER INFORMATION: /product= "hprt"
OTHER INFORMATION: /note= "human telomerase reverse
transcriptase (hprt) catalytic protein"
OTHER INFORMATION: component"
US-08-912-951-1

Query Match 99.6%; Score 2837; DB 4; Length 4015;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GCAGCGTGGTCTGCTGGGACAGTGGAAAGCCCTGGCCCGGACACCCCGGATGCC 71
DB 1 GCAGCGTGGTCTGCTGGGACAGTGGAAAGCCCTGGCCCGGACACCCCGGATGCC 60
QY 72 GCGGCTCCCGCTGCGGACGCGCTCCCTGCTGGACACTACCGGAGTGTCT 131
DB 61 GCGGCTCCCGCTGCGGACGCGCTCCCTGCTGGACACTACCGGAGTGTCT 120
QY 132 GCGGCTGGACAGTGTGCGGCGCGTGGGCGCCGAGGGCTGGCGGTGTGACGCGG 191
DB 121 GCGGCTGGACAGTGTGCGGCGCGTGGGCGCCGAGGGCTGGCGGTGTGACGCGG 180
QY 192 GGAACCGGCGGCTTCCGCGCGTGGGCGCCGAGTGTGCTGGTGGTGGGCGC 251
DB 181 GGAACCGGCGGCTTCCGCGCGTGGGCGCCGAGTGTGCTGGTGGTGGGCGC 240
QY 252 ACGGCGCGCGCGCGCGCGCGCGCTTCCGCGAGTGTGCTGGTGGTGGGCGC 311
DB 241 ACGGCGCGCGCGCGCGCGCGCGCTTCCGCGAGTGTGCTGGTGGTGGGCGC 300
QY 312 CCGAGTCTGACAGAGCTGTGCGAGCGCGCGCGGAGAGAGTGTGCTGGCTTGC 371
DB 301 CCGAGTCTGACAGAGCTGTGCGAGCGCGCGCGGAGAGAGTGTGCTGGCTTGC 360
QY 372 GCTGCTGGAGGGGCGCGGCGGCGCGCGCGAGGCTTCCGAGCGTTCACACAGCGTGGCAGCTA 431
DB 361 GCTGCTGGAGGGGCGCGGCGGCGCGCGCGAGGCTTCCGAGCGTTCACACAGCGTGGCAGCTA 420
QY 432 CTTGCGCCACAGCTGTGACGACGACGACGCGGCGGAGCGGCGGTGGGCGTGTGCTGC 491
DB 421 CTTGCGCCACAGCTGTGACGACGACGACGCGGCGGAGCGGCGGTGGGCGTGTGCTGC 480
QY 492 CCGGCTGGGCGAGAGCTGTGCTGCTACCTGCTGGACGCTGGCGCTCTTGTGTGCT 551
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DB 601 TCAAGCGCGCGCGCGCGCGCGCGCGTGTGAGACCGGAGCGTGTGGAGTGTGAGAGCGG 660
QY 672 CTGGAACCATAGCTGAGGAGCGCGGCGTCCCTGCGGCGCTGTGCAAGCCCGGAGTGTGAG 731
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QY 732 GAGGCGGCGGCGGAGTGTGCGAGCGGAGTGTGCGGCTTCCGAGAGGCGCGGCGTGTGCGG 791
DB 721 GAGGCGGCGGCGGAGTGTGCGAGCGGAGTGTGCGGCTTCCGAGAGGCGCGGCGTGTGCGG 780
QY 792 TGCCCTGAGCGGAGGAGGAGCGCGCGTGGGACAGGGGCTCGGGCCACCGCGGACGAGAC 851
DB 781 TGCCCTGAGCGGAGGAGGAGCGCGCGTGGGACAGGGGCTCGGGCCACCGCGGACGAGAC 840
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DB 901 CACCTCTTTGAGAGGAGT 960
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DB 961 GCACACGCGGCG 1020
QY 1032 CCGGCTGTAGCGCGAGACCAAGCACTTCTCTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1091
DB 1021 CCGGCTGTAGCGCGAGACCAAGCACTTCTCTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1080
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QY 1152 GACCATCTTCT 1211
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DB 1201 GCGCCAGCGCTACTGTGCAAAATGCGGCGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1260
QY 1272 GTGCGCCCTAGCGGGGTGTCTCTCAAGAGGAGTGTGCGCGCTGTGAGCTGTGAGCTGTGAG 1331
DB 1261 GTGCGCCCTAGCGGGGTGTCTCTCAAGAGGAGTGTGCGCGCTGTGAGCTGTGAGCTGTGAG 1320
QY 1332 AGCGGATGT 1391
DB 1321 AGCGGATGT 1380
QY 1392 CACAGAGCCCGCTGT 1451
DB 1381 CACAGAGCCCGCTGT 1440
QY 1452 CGGCTGT 1511
DB 1441 CGGCTGT 1500
QY 1512 CAACGAAGCGCGCTTCTCTAGAGAACACCAAGAAATTCATCTCTCTCTCTCTCTCTCTCTCTCT 1571
DB 1501 CAACGAAGCGCGCTTCTCTAGAGAACACCAAGAAATTCATCTCTCTCTCTCTCTCTCTCTCTCT 1560
QY 1572 GCTTCTGCTGTGAGAGCTGACGTGTGAAGATGAGCGTGTGGGACTGTGCGCTGTGCGAG 1631
DB 1561 GCTTCTGCTGTGAGAGCTGACGTGTGAAGATGAGCGTGTGGGACTGTGCGCTGTGCGAG 1620
QY 1632 GAGCCAGAGGGGT 1691
DB 1621 GAGCCAGAGGGGT 1680
QY 1692 CAAGTTCCTGTGACTGT 1751
DB 1681 CAAGTTCCTGTGACTGT 1740
QY 1752 TGTGAGAGAGACAGCTTTTCAAAAAGAGGCTTTTCTTACCGAAGAGTGTGTGAG 1811
DB 1741 TGTGAGAGAGACAGCTTTTCAAAAAGAGGCTTTTCTTACCGAAGAGTGTGTGAG 1800
QY 1812 CAAGTTCCTGTGAGT 1871
DB 1801 CAAGTTCCTGTGAGT 1860

D	b	901	CACCTCTTTGGAGGGGTGGCGCTCTGTGGACGCGCCACTCCACCACATCCGTGGGCGCGCA	960
Q	y	972	GCACACGCGGGGGCCCCCATATCAGATGCGGGCCACACAGTCCCTGGGACACAGCCTTGTC	1031
D	b	961	GCACACGCGGGGGCCCCCATATCAGATGCGGGCCACACAGTCCCTGGGACACAGCCTTGTC	1020
Q	y	1032	CCCGGTGTACCCGACAGACCAAGCACTTCTCTACTCTCAGGGACAAAGAGCACTTCG	1091
D	b	1021	CCCCGTGTACCCGACAGACCAAGCACTTCTCTACTCTCAGGGACCAAGAGCACTTCG	1080
Q	y	1092	GGCCCTCCTTACTCAGCTCTGTGAGGGCCGACGTGAGTGGGCTGGAGGGCTGTGGA	1151
D	b	1081	GGCCCTCCTTACTCAGCTCTGTGAGGGCCGACGTGAGTGGGCTGGAGGGCTGTGGA	1140
Q	y	1152	GACCATCTTTCTGGGGTTCAGAGGCCCTGGATGCCAGGAGACTCCCGCAGTTGGCCGCCCT	1211
D	b	1141	GACCATCTTTCTGGGGTTCAGAGGCCCTGGATGCCAGGAGACTCCCGCAGTTGGCCGCCCT	1200
Q	y	1212	GGCCCAAGCGCTACTGTGGCAATGCGGGCCCTGTCTGTGGAGTGTGGGAACAACGCGCA	1271
D	b	1201	GGCCCAAGCGCTACTGTGGCAATGCGGGCCCTGTCTGTGGAGTGTGGGAACAACGCGCA	1260
Q	y	1272	GTGGCCCTCAGGGGGTGGCCCTCAGAGGACATGTGCCGCTGTGAGCTCGGTGACCCAC	1331
D	b	1261	GTGGCCCTCAGGGGGTGGCCCTCAGAGGACATGTGCCGCTGTGAGCTCGGTGACCCAC	1320
Q	y	1332	AGCCGCTGTCTGTCCCGGGGAGAAAGCCCAAGGCGTGTGGCGGGCCGCCGAGAGAGAGA	1391
D	b	1321	AGCCGCTGTCTGTCCCGGGGAGAAAGCCCAAGGCGTGTGGCGGGCCGCCGAGAGAGAGA	1380
Q	y	1392	CACAGACCCCGCTGCGCTGTGTGCAGCTCTCGCCAGCAGCAGACCCCTGGCAGGTGTA	1451
D	b	1381	CACAGACCCCGCTGCGCTGTGTGCAGCTCTCGCCAGCAGCAGACCCCTGGCAGGTGTA	1440
Q	y	1452	CGGCTGTGTGGGGGCGTCCGCGCGCGGGCTGGTCCGCCAGGGCCCTMGGGGGCTCCAGCA	1511
D	b	1441	CGGCTGTGTGGGGGCGTCCGCGCGCGGGCTGGTCCGCCAGGGCCCTMGGGGGCTCCAGCA	1500
Q	y	1512	CAAGCAACGCGCGCTTCCACAGAAACACCACAAAGTTCATCTCCCTGGGGAAAGCATGCCAA	1571
D	b	1501	CAAGCAACGCGCGCTTCCACAGAAACACCACAAAGTTCATCTCCCTGGGGAAAGCATGCCAA	1560
Q	y	1572	GCTCTCGCTGCAGAGACTGACGTGAGAGATGAGCGTGGGAGTGCCTTGGCTGCGCAG	1631
D	b	1561	GCTCTCGCTGCAGAGACTGACGTGAGAGATGAGCGTGGGAGTGCCTTGGCTGCGCAG	1620
Q	y	1632	GAGGCCAGGGGTTGGGTGTGTCCGGGCGCAGACACCGTGTGGGTAGAGAGATCCTGGC	1691
D	b	1621	GAGGCCAGGGGTTGGGTGTGTGTCCGGGCGCAGACACCGTGTGGGTAGAGAGATCCTGGC	1680
Q	y	1692	CAAGTTCCTGTACATGCGCTGATGAGTGTGTACGTGTGCAGCTGCTCAGAGTTCCTTTTAA	1751
D	b	1681	CAAGTTCCTGTACATGCGCTGATGAGTGTGTGTACGTGTGTGCAGAGTTCCTTTTAA	1740
Q	y	1752	TGTACGAGAGACCAAGTTTCAAAAAGAACAGGCTCTTTTCTACCGGAAGAGTGTGGAG	1811
D	b	1741	TGTACGAGAGACCAAGTTTCAAAAAGAACAGGCTCTTTTCTACCGGAAGAGTGTGGAG	1800
Q	y	1812	CAAGTTCGAAAGCAATTGGGAATCAACACAGCAATTAAAGAGGTGACAGTGGGGAGCTGT	1871
D	b	1801	CAAGTTCGAAAGCAATTGGGAATCAACACAGCAATTAAAGAGGTGACAGTGGGGAGCTGT	1860
Q	y	1872	GGAAGCAGAGGTACAGGAGCATGTGGGAAAGCCAGGCCCGCCCTGTGTGACGTCAACACTCCG	1931
D	b	1861	GGAAGCAGAGGTACAGGAGCATGTGGGAAAGCCAGGCCCGCCCTGTGTGACGTCAACACTCCG	1920
Q	y	1932	CTTCATCCCCCAAGCGCTGAAGGGGCTGCGGGCGATTGTGAACATGTGACTACGTGTGGAGC	1991
D	b	1921	CTTCATCCCCCAAGCGCTGAAGGGGCTGCGGGCGATTGTGAACATGTGACTACGTGTGGAGC	1980
Q	y	1992	CAGAAAGCTTCCGACAGAGAAAAAGAGGGCCGAGCGTCTCACTCTGAGGGTGAAGAGCACTGTT	2051
D	b	1981	CAGAAAGCTTCCGACAGAGAAAAAGAGGGCCGAGCGTCTCACTCTGAGGGTGAAGAGCACTGTT	2040

OY		2052	CAGGCTGTCAACTACAGAGGGGGGGCGGCCGCCCGCCGCTTCTTG6GGCCTCTGTGCTGGG	2111
Dd		2041	CAGGTCCTCAACTACAGAGGGGGGGCGGCCGCCCGCCGCTTCTTG6GGCCTCTGTGCTGGG	2100
OY		2112	CCTGAGAGATATCCACAAGGGCTGGGCACCATTCTGCTGCTGCTGTTGGGGCCCAAGAACCC	2171
Dd		2101	CTTGAGAGATATCCACAAGGGCCTTGCGCACCTTCTGTCTGTGCTGTTGGGGCCCAAGAACCC	2160
OY		2172	GCCGCGTAGCTGTAATTTGTCAAGTGTGATGTGACGGGGGCGCGTACAGACACCATCCCCCA	2231
Dd		2161	GCCCCTGAGCTGTACTTTGTGTCAGAAGTGTGATGTGATACGGGGGCGCGTACAGACACCATCCCCCA	2220
OY		2232	GGAAAGGCTACAGGAAGTGCATCCGCACATCATCAAACCCCAAGAACACGATGCTGGGCG	2291
Dd		2221	GGAAAGGCTACAGGAAGTGCATCCGCACATCATCAAACCCCAAGAACACGATGCTGGGCG	2280
OY		2292	TGGGTATGCGCTGTGTCCAGAAAGCGCGGCCCATATGGGACAGTCCGCAAGGACCTTCAAGAACCA	2351
Dd		2281	TGGGTATGCGCTGTGTCCAGAAAGCGCGGCCCATATGGGACAGTCCGCAAGGACCTTCAAGAACCA	2340
OY		2352	CGTCTTACCTTGAACAGACCTCCAGCCGTACATGCGACAGTGTGTGCTCACTGCAGAGA	2411
Dd		2341	CGTCTTACCTTGAACAGACCTCCAGCCGTACATGCGACAGTGTGTGCTCACTGCAGAGA	2400
OY		2412	GACAGGCGCGGTGAGGGATGCGCGTCATGTGACACAGTCCCTCCCTGAAATAGGCGAG	2471
Dd		2401	GACAGGCGCGGTGAGGGATGCGCGTCATGTGACACAGTCCCTCCCTGAAATAGGCGAG	2460
OY		2472	CAGTGGCCTTTCACAGCTCTTCCATACGCTTCATGTGCACACAGCCGCTGGCATACAGGGG	2531
Dd		2461	CAGTGGCCTTTCACAGCTCTTCCATACGCTTCATGTGCACACAGCCGCTGGCATACAGGGG	2520
OY		2532	CAAGTCTTACGTCCAGTGGCCAGGGGATNCCGCAAGGCTCCATCTCTCCACAGCTGCTTG	2591
Dd		2521	CAAGTCTTACGTCCAGTGGCCAGGGGATNCCGCAAGGCTCCATCTCTCCACAGCTGCTTG	2580
OY		2592	CAGCCTGGCTACAGGCGCATGAGAAACAAGCTGTTGGCGGGGATTTGGGGGGGACGGGCT	2651
Dd		2581	CAGCCTGGCTACAGGCGCATGAGAAACAAGCTGTTGGCGGGGATTTGGGGGGGACGGGCT	2640
OY		2652	GCTCCTCGGTTGGTGGATGATTTCTTGTGGTACACCTCACCTCACCCACGCGAAMAAC	2711
Dd		2641	GCTCCTCGGTTGGTGGATGATTTCTTGTGGTACACCTCACCTCACCCACGCGAAMAAC	2700
OY		2712	CTTCTCTAAGAACCTTGGTCCGAGGTGTCCCTGAGTATGCTGGGTGTGAATTTGGCGAA	2771
Dd		2701	CTTCTCTAAGAACCTTGGTCCGAGGTGTCCCTGAGTATGCTGGGTGTGAATTTGGCGAA	2760
OY		2772	GACAGTGGTGAATCTCCTGTGAGAAGACGAGGCGCTGGTGGGACAGGCTTTTGTTCAGAT	2831
Dd		2761	GACAGTGGTGAATCTCCTGTGAGAAGACGAGGCGCTGGTGGGACAGGCTTTTGTTCAGAT	2820
OY		2832	GCCGCGCCACAGCGCCTAT	2848
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RESULT 12				
US-08-851-843A-173				
; Sequence 173, Application US/08851843A				
; Patent No. 6093809				
; GENERAL INFORMATION:				
; APPLICANT: Cech, Thomas R.				
; APPLICANT: Lingner, Joachim				
; APPLICANT: Nakamura, Toru				
; APPLICANT: Chapman, Karen B.				
; APPLICANT: Morin, Greg B.				
; APPLICANT: Harley, Calvin				
; APPLICANT: Andrews, William H.				
; TITLE OF INVENTION: No. 6093809el Telomerase				
; NUMBER OF SEQUENCES: 225				
; CORRESPONDENCE ADDRESSES:				

ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: United States of America
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,843A
FILING DATE: 06-MAY-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-00293005
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 173:
SEQUENCE CHARACTERISTICS:
LENGTH: 4029 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY:
LOCATION: 1..4029 /note= "preliminary sequence for
OTHER INFORMATION: human TRT cDNA insert of
OTHER INFORMATION: plasmid pGRN121"
US-08-851-843A-173
Query Match 93.8%; Score 2671.2; DB 3; Length 4029;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 2777; Conservative 0; Mismatches 53; Indels 9; Gaps 8;

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432 CTTGCCCAACAGAGGTGACGAGCAGCTGCGGGGAGAGGGGGGGGGGGGGGGGGGG 491
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421 CCGGCCAACAAGGTGACGAGCAGCTGCGGGGAGAGGGGGGGGGGGGGGGGGGGGG 480
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492 CCGCGTGGGCGAGCAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 551
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481 CCGCGTGGGCGAGCAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
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552 GCGTCCAGCTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 611
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612 TCAGGCGCGGG 671
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DB 1614 AGGAGCCAGGGGTGGCTGTGTTCGCGCCAGAGACCGCTGTGCGTAGAGATCTGTG 1673
QY 1690 GCCAAGTTCCTGCACTGGCTGATGATGTGTACGTGCTGAGCTGTCTAGTCTTTCTT 1749
DB 1674 GCCAAGTTCCTGCACTGGCTGATGATGTGTACGTGCTGAGCTGTCTAGTCTTTCTT 1733
QY 1750 TATGTACGAGACACGCTTCAAAAGACAGGCTCTTTCTACCGGAGAGTGTG 1809
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QY 1810 AGCAAGTTGCAAGCATTGATGATGACAGACACTTGAAGAGGTGACACTCGGGAGCTG 1869
DB 1794 AGCAAGTTGCAAGCATTGATGATGACAGACACTTGAAGAGGTGACACTCGGGAGCTG 1853
QY 1870 TCGGAGAGAGGTTCAGGACATTCGGGAAGCCGCGCTGTGCTGACGTCCAGACTC 1929
DB 1854 TCGGAGAGAGGTTCAGGACATTCGGGAAGCCGCGCTGTGCTGACGTCCAGACTC 1913
QY 1930 CGCTTCATCCCAAGCCTGACGGGCTGCGCGGATTTGTAACATGGAATAGTGTGGA 1989
DB 1914 CGCTTCATCCCAAGCCTGACGGGCTGCGCGGATTTGTAACATGGAATAGTGTGGA 1973
QY 1990 GCCAAGAGTTCGCGAGAAAGAGAGGCGCAGCGCTCTACCTCGAGGGTGAAGGCACTG 2049
DB 1974 GCCAAGAGTTCGCGAGAAAGAGAGGCGCAGCGCTCTACCTCGAGGGTGAAGGCACTG 2033
QY 2050 TTCAAGCGTCACTACGACGGGCGCGGGGCGCGGCTGCTGTGCTGTGCTG 2109
DB 2034 TTCAAGCGTCACTACGACGGGCGCGGGGCGCGGCTGCTGTGCTGTGCTG 2093
QY 2110 GGCTTGACGATATTCACAGGGGCTGCGGACCTTCTGCTGCTGCTGCTGCTGCTG 2169
DB 2094 GGCTTGACGATATTCACAGGGGCTGCGGACCTTCTGCTGCTGCTGCTGCTGCTG 2153
QY 2170 CGCGCGCTGAGCTGTACTTTGTCAAGTGTGATGTGACGGGCGGCTGACGACCATCC 2229
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QY 2230 CAGGACAGGCTCAGGAGGTGATGCGCAGCATCAACCCGAGAACACTACTGCTG 2289
DB 2214 CAGGACAGGCTCAGGAGGTGATGCGCAGCATCAACCCGAGAACACTACTGCTG 2273
QY 2290 CGTGGATGCGGTGTCTCAGAAAGGCGCCCATGGGACGTCCGAAAGGCTTCAAGAGC 2349
DB 2274 CGTGGATGCGGTGTCTCAGAAAGGCGCCCATGGGACGTCCGAAAGGCTTCAAGAGC 2333
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DB 2334 CAGCTCTCTACCTTGACAGACCTTCAGCCGTACATGCGACAGTTCGTGGCTCAGCTG 2393
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DB 2394 GAGACAGCCCGCTGAGGAGTCCGTGTCTATCGACGAGACTCTCTCTTAAGAGGCC 2453
QY 2470 AGCAGTGGCTCTCTGAGAGTCTCTAAGCTTCAATGTGCGACGAGCGCTGCGATCAGG 2529
DB 2454 AGCAGTGGCTCTCTGAGAGTCTCTAAGCTTCAATGTGCGACGAGCGCTGCGATCAGG 2513
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DB 2574 TGCAGCTGTGCTACGCGGAGATGAGAGAAAGCTGTTTGGGGGATTCGGCGGAGCGG 2633
QY 2650 CTGCTCTGCTGTGTGTGATGATTTCTGTGTGTGACACTCTACCTCAGCGGAAA 2709
DB 2634 CTGCTCTGCTGTGTGTGATGATTTCTGTGTGTGACACTCTACCTCAGCGGAAA 2693

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DB 2694 ACCTTCTCAGACCCCTGGTCCGAGGTGTCCCTGATATGCTCGGTGTAAGTTCGG 2753
QY 2770 AAGACAGTGTGAAGTTCCTCTGTAGAAAGACAGGCGCTGGGTGACGAGCTTTGTTGAG 2829
DB 2754 AAGACAGTGTGAAGTTCCTCTGTAGAAAGACAGGCGCTGGGTGACGAGCTTTGTTGAG 2813
QY 2830 ATGCCGGCCACGCGCTAT 2848
DB 2814 ATGCCGGCCACGCGCTAT 2832

RESULT 14
US-08-854-050-173
Sequence 173, Application US/08854050
Patent No. 6261836
GENERAL INFORMATION:
APPLICANT: Cech, Thomas R.
APPLICANT: Lingner, Joachim
APPLICANT: Nakamura, Toru
APPLICANT: Chapman, Karen B.
APPLICANT: Morin, Gregg B.
APPLICANT: Harley, Calvin
APPLICANT: Andrews, William H.
TITLE OF INVENTION: No. 6261836el Telomerase
NUMBER OF SEQUENCES: 225
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: United States of America
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/854,050
FILING DATE: 09-MAY-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/851,843
FILING DATE: 06-MAY-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-002930US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 173:
SEQUENCE CHARACTERISTICS:
LENGTH: 4029 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

Db	1974	GCCAGAACGTTCCCGACAGAAAAAGAGGCGCAGAGGCTCACCTCGAGGGGTGAAGCACTG	20533
Qy	2050	TTTCAGCGTGTCTCAACTACGAGACGGGGCGGGCGCCCCGGGCTTCTGTGGCGCTCTGTGCTG	21099
Db	2034	TTTCAGCGTGTCTCAACTACGAGACGGGGCGGGCGCCCCGGGCTTCTGTGGCGCTCTGTGCTG	20939
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Db	2094	GGCGTGGACGATATTCACACAGGGGCGCTGGGCGCACTTCGTCGTGGCGTGCAGGGCCAGGAC	21533
Qy	2170	CCGCGCGCGTGAAGCTGTACTTGTGTCAAGGTGAGTGTGACGGGCGGCTACGACACCATCCG	22259
Db	2154	CCGCGCGCGTGAAGCTGTACTTGTGTCAAGGTGAGTGTGACGGGCGGCTACGACACCATCCG	22133
Qy	2230	CAGACACAGGCTCACAGGAGGTATATGCCAGCATTCATCAACCCAGAACAGTACTCGGTG	22899
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Qy	2290	CGTGGGATATGCGCGTGGATCCAGAAAGCCGCGCATGCGGACGTCGCGCAAGGGCTTCAAGAGC	23459
Db	2274	CGTGGGATATGCGCGTGGATCCAGAAAGCCGCGCATGCGGACGTCGCGCAAGGGCTTCAAGAGC	23333
Qy	2350	CACGTCTCTACCTTGTAGACAGACCTTCAGCCGTACATGCGACAGTTCTGTGGCTCACCTGAG	24099
Db	2334	CACGTCTCTACCTTGTAGACAGACCTTCAGCCGTACATGCGACAGTTCTGTGGCTCACCTGAG	23933
Qy	2410	GAGACACAGCCCGCTGAGAGGATGCGGCTGTCTATCGACACAGAGCTCTCTCTGAATGAGGCC	24659
Db	2394	GAGACACAGCCCGCTGAGAGGATGCGGCTGTCTATCGACACAGAGCTCTCTCTGAATGAGGCC	24533
Qy	2470	AGCAGTGGGCTCTCTTCGACAGTCTTCTCTACAGCTTCATGTGCCACACAGCGCGTGGCATCAGG	25259
Db	2454	AGCAGTGGGCTCTCTTCGACAGTCTTCTCTACAGCTTCATGTGCCACACAGCGCGTGGCATCAGG	25133
Qy	2530	GGCAAGTCTACAGCTTCAGTGCAGTGGCAGGGGATCCCGCAGGGCTTCATCTCTCCAGCCTGCTC	25899
Db	2514	GGCAAGTCTACAGCTTCAGTGCAGTGGCAGGGGATCCCGCAGGGCTTCATCTCTCCAGCCTGCTC	25739
Qy	2590	TGCAGCCTGTGCTACGCGGACATGAGACAAAGCTGTTTGGCGGGATTTGGCGGGACGGG	26459
Db	2574	TGCAGCCTGTGCTACGCGGACATGAGACAAAGCTGTTTGGCGGGATTTGGCGGGACGGG	26333
Qy	2650	CTGCTCCCGGCTTGGTGGATGATTTCTGTTGGTGAACCTTCACCTCACCCAGCGCAAA	27099
Db	2634	CTGCTCCCGGCTTGGTGGATGATTTCTGTTGGTGAACCTTCACCTCACCCAGCGCAAA	26533
Qy	2710	ACCTTCTCTCAGAGACCCGTGTCAGAGTGTCCCTAGATATGGCTCAGTGTGAACCTTGCGG	27659
Db	2694	ACCTTCTCTCAGAGACCCGTGTCAGAGTGTCCCTAGATATGGCTCAGTGTGTGAACCTTGCGG	27533
Qy	2770	AAGACAGTGTGAACCTTCCCTGTAGAAAGACGAGGCCCTGGGTGGACAGGCTTTTGTTCAG	28259
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Qy	2830	ATGCGGGGCCACGGGCTTAT 2848	
Db	2814	ATGCGGGGCCACGGGCTTAT 2832	
RESULT 15			
US-09-430-323-173			
: Sequence 173, Application US/09430323			
: Patent NO. 6309867			
: GENERAL INFORMATION:			
APPLICANT: Cecch, Thomas R.			
: Lingner, Joachim			
: Nakamura, Toru			
: Chapman, Karen B.			
: Morin, Gregg B.			
: Harley, Calvin			
: Andrews, William H.			
TITLE OF INVENTION: No. 6309867el Telomerase			

```

1  NUMBER OF SEQUENCES: 225
2  CORRESPONDENCE ADDRESS:
3  ADDRESSEE: Townsend and Townsend and Crew LLP
4  STREET: Two Embarcadero Center, 8th Floor
5  CITY: San Francisco
6  STATE: California
7  COUNTRY: United States of America
8  ZIP: 94111
9
10 COMPUTER READABLE FORM:
11 MEDIUM TYPE: Floppy disk
12 COMPUTER: IBM PC compatible
13 OPERATING SYSTEM: PC-DOS/MS-DOS
14 SOFTWARE: PatentIn Release #1.0, Version #1.30
15
16 CURRENT APPLICATION DATA:
17 APPLICATION NUMBER: US/09/430,323
18 FILING DATE: 29-Oct-1999
19 CLASSIFICATION: <Unknown>
20
21 PRIOR APPLICATION DATA:
22 APPLICATION NUMBER: US 08/854,050
23 FILING DATE: 09-MAY-1997
24 APPLICATION NUMBER: US 08/851,843
25 FILING DATE: 06-MAY-1997
26 APPLICATION NUMBER: US 08/846,017
27 FILING DATE: 25-APR-1997
28 APPLICATION NUMBER: US 08/844,419
29 FILING DATE: 18-APR-1997
30 APPLICATION NUMBER: US 08/724,643
31 FILING DATE: 01-OCT-1996
32
33 ATTORNEY/AGENT INFORMATION:
34 NAME: Apple, Randolph T.
35 REGISTRATION NUMBER: 36,429
36 REFERENCE/DOCKET NUMBER: 015389-00293005
37
38 TELECOMMUNICATION INFORMATION:
39 TELEPHONE: (415) 576-0200
40 TELEFAX: (415) 576-0300
41
42 INFORMATION FOR SEQ ID NO: 173:
43
44 SEQUENCE CHARACTERISTICS:
45     LENGTH: 4029 base pairs
46     TYPE: nucleic acid
47     STRANDEDNESS: single
48     TOPOLOGY: linear
49
50 MOLECULE TYPE: cDNA
51
52 FEATURE:
53     NAME/KEY:
54     LOCATION: 1..4029
55     OTHER INFORMATION: /note="Preliminary sequence for
56     human TET cDNA insert of
57     plasmid pGRN121"
58
59 SEQUENCE DESCRIPTION: SEQ ID NO: 173:
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61 US-09-430-323-173
62
63 Query Match          93.8%; Score 2671.2; DB 4; Length 4029;
64 Best Local Similarity 97.8%; Pred. No. 0;
65 Matches 2777; Conservative 0; Mismatches 53; Indels 9; Gaps 8;
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Db	2574	TGCAGCCTGTGCTACGGCGACATGGAGNACAAGCTGTTTGGCGGGATTCGGCGGACGGG	2633
OY	2650	CTGCATCCGCGCTTGGTGGATGATTTCTGTGGTGAACCTCACTCACTCAACCAAGCGCAA	2709
Db	2634	CTGCATCTGCCTTTGGTGGATGATTTCTGTGGTGAACCTCACTCACTCAACCAAGCGCAA	2693
OY	2710	ACCTTCTCTCAGAGACCTGTGTCCGAGTGTCCCTCAAGTATGGCTCGTGTGAACTTGCGG	2769
Db	2694	ACCTTCTCTCAGAGACCTGTGTCCGAGTGTCCCTCAAGTATGGCTCGTGTGTGAACTTGCGG	2753
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OY	2830	ATGCGGGGCCACGGGCTAT	2848
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Search completed: October 7, 2003, 08:39:56
Job time : 160.853 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 7, 2003, 08:32:46 ; Search time 676.622 Seconds
(without alignments)
10736.958 Million cell updates/sec

Title: US-08-951-733-13

Perfect score: 2848
Sequence: 1 CACGGCTCCGGGACGCGTG.....GATCGCGCCACGCGCTAT 2848

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1708419 seqs, 1275431651 residues 3416838
Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA.*

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- 17: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	2837	99.6	4015	10 US-09-843-676-224	Sequence 224, App
4	2837	99.6	4015	10 US-09-953-052-1	Sequence 1, App1
5	2837	99.6	4015	14 US-10-053-758-224	Sequence 224, App
6	2837	99.6	4015	14 US-10-208-243-1	Sequence 1, App1
7	2837	99.6	4015	14 US-10-054-295-224	Sequence 224, App
8	2837	99.6	4015	14 US-10-054-611-224	Sequence 224, App
9	2837	99.6	4015	14 US-10-105-963-1	Sequence 1, App1
10	2837	99.6	4015	14 US-10-044-692-1	Sequence 1, App1
11	2837	99.6	4015	14 US-10-044-539-1	Sequence 1, App1
12	2782	97.7	3396	10 US-09-749-728B-32	Sequence 32, App1
13	2780.6	97.6	3453	14 US-10-205-629-1	Sequence 1, App1
14	2780.6	97.6	13766	12 US-10-105-616-1	Sequence 1, App1
15	2768.6	97.2	8742	12 US-10-105-616-6	Sequence 6, App1
16	2671.2	93.8	4029	10 US-09-843-676-173	Sequence 173, App

17	2671.2	93.8	4029	11 US-09-438-486-173	Sequence 173, App
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19	2671.2	93.8	4029	14 US-10-054-295-173	Sequence 173, App
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27	1517.6	53.3	15418	11 US-09-995-419A-1	Sequence 1, App1
28	1517.6	53.3	15418	14 US-10-141-220-1	Sequence 1, App1
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34	1193	41.9	1311	14 US-10-294-778-1	Sequence 1, App1
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ALIGNMENTS

RESULT 1
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; Sequence 3, Application US/09733294A
; Patent No. US2002045588A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Mont
; APPLICANT: William Gaarde
; APPLICANT: Susan M. Freiler
; APPLICANT: Edward V. Wanciewicz
; TITLE OF INVENTION: ANTISENSE MODULATION OF TERT EXPRESSION
; FILE REFERENCE: ISPH-0527
; CURRENT APPLICATION NUMBER: US/09/733,294A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: 09/572,423
; PRIOR FILING DATE: 2000-05-16
; NUMBER OF SEQ ID NOS: 108
; SEQ ID NO 3
; LENGTH: 4015
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (56)...(3454)
; US-09-733-294A-3

Query Match 99.6%; Score 2837; DB 9; Length 4015;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 132 GCGCGTCCCGCTGCTGCTGCGGACGCTGCTGCGGACGCTGCTGCTGCGGCGG 191
Db 132 GCGCGTCCCGCTGCTGCTGCGGACGCTGCTGCTGCGGACGCTGCTGCTGCGGCGG 191

OY	2352	CGTCTTACCTTGCACAGACCTCCAGCCGTACATGCGACAGTTCGTGGCTACCTGCAGGA	24111
Db	2341	CGTCTTACCTTGCACAGACCTCCAGCCGTACATGCGACAGTTCGTGGCTACCTGCAGGA	24000
OY	2412	GACCAAGCCGCTGAGGGATGCGCGATCAGTACAGACAGTCCCTCGAATGAGGGCAG	24711
Db	2401	GACCAGCCCGCTGAGGGATGCGCGATCAGTACAGACAGTCCCTCGAATGAGGGCAG	24600
OY	2472	CAGTGGCCTCTTCACAGCTCTTCACGCTTCATGTGCACACACGCGTGCATCAGAGG	25311
Db	2461	CAGTGGCCTCTTCACAGCTCTTCACGCTTCATGTGCACACACGCGCTGCATCAGAGG	25200
OY	2532	CAAGTCTACGTCCAGTGCAGAGGGATCCGACAGGGCTCCATCCTCTCCACAGCTGCTG	25911
Db	2521	CAAGTCTACGTCCAGTGCAGAGGGATCCGACAGGGCTCCATCCTCTCCACAGCTGCTG	25800
OY	2592	CAGCCTGTCACAGGGCAGCATGAGAGCAACCTTTTGGGGGATTTGGCGGGACGGGCT	26511
Db	2581	CAGCCTGTCACAGGGCAGCATGAGAGCAACCTTTTGGGGGATTTGGCGGGACGGGCT	26400
OY	2652	GCTCTCGCTGTTGGTGTGATGATTTCTTTGGTGTGACACCTACCTCACCACGGGAAAC	27111
Db	2641	GCTCTCGCTGTTGGTGTGATGATTTCTTTGGTGTGACACCTACCTCACCACGGGAAAC	27000
OY	2712	CTTCTCTAGAGACCTGTGTCGAGGTGTCCCTGAGTATGCGTGCSTGTGAACCTTGCGAA	27711
Db	2701	CTTCTCTAGAGACCTGTGTCGAGGTGTCCCTGAGTATGCGTGCSTGTGTGAACCTTGCGAA	27600
OY	2772	GACAGTGTGTGAACCTTCCTGTGAGAAAGACGAGCCCTGGTGTGACAGGCTTTTGTTCAGAT	28311
Db	2761	GACAGTGTGTGAACCTTCCTGTGAGAAAGACGAGCCCTGGTGTGACAGGCTTTTGTTCAGAT	28200
OY	2832	GCCGGCCACAGGCTAT 2848	
Db	2821	GCCGGCCACAGGCTAT 2837	
RESULT 2			
US-09-990-080-1			
: Sequence 1, Application US/09990080			
: Patent No. US20020102686A1			
: GENERAL INFORMATION:			
: APPLICANT: Morin, Gregg B.			
: APPLICANT: Gezon Corporation			
: TITLE OF INVENTION: Human Telomerase Catalytic Subunit Variants			
: FILE REFERENCE: 018/258c			
: CURRENT APPLICATION NUMBER: US/09/990,080			
: CURRENT FILING DATE: 1998-08-03			
: PRIOR APPLICATION NUMBER: US 09/052,864			
: PRIOR FILING DATE: 1998-03-31			
: NUMBER OF SEQ ID NOS: 21			
: SOFTWARE: PatentIn Ver. 2.0			
: SEQ ID NO 1			
: LENGTH: 4015			
: TYPE: DNA			
: ORGANISM: Homo sapiens			
: FEATURE:			
: NAME/KEY: CDS			
: LOCATION: (56)..(3454)			
: OTHER INFORMATION: human telomerase reverse transcriptase (hTERT) cDNA			
US-09-990-080-1			
Query Match			
Best Local Similarity 99.6%; Score 2837; DB 10; Length 4015;			
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
OY	12	GCAGCGCTGCCTCTGCTGTCACAGTGGGAAGCCCTGGCCCCGGGCAACCCCGGATGCC	71
Db	1	GCAGCGCTGCTCTGCTGTCACAGTGGGAAGCCCTGGCCCCGGGCAACCCCGGATGCC	60
OY	72	GCGGGCTCCCGCTGACGAGCCGTCGCTCCCTGCTGCGCAGCCACTACCGCGAGGTCT	131
Db	61	GCGGGCTCCCGCTGACGAGCCGTCGCTCCCTGCTGCGCAGCCACTACCGCGAGGTCT	120

QY	132	GCCTGCGCACGTTGTCGCGAGCCCTGGGGCCCAAGGCTGGCGCTGTCGACGCGG	191
Db	121	GGCGTGGGACAGTTCGTGTCGGCGCCTGGGGGCCCAAGGCTGGCGCTGTCGACGCGG	180
QY	192	GGACCCGGGGGCTTTCGGGCGCGCTGGTGGCCCAAGTCCCTGAGTGTGGTGGCCCTGGGAACGC	251
Db	181	GGACCCGGGGGCTTTCGGGCGCGCTGGTGGCCCAAGTCCCTGAGTGTGGTGGCCCTGGGAACGC	240
QY	252	ACGGCGCGCCCGCGCCGCCCTCCTTCCGCCAGGTGTCTGGCTGAAGAGCTGGTGGC	311
Db	241	ACGGCGCGCCCGCGCCGCCCTCCTTCCGCCAGGTGTCTGGCTGAAGAGCTGGTGGC	300
QY	312	CCGAGTGGTCGACAGAGCTGTGCGAGGCGCGCGGGAAGAACGTGTGTGGCTTGGCTTGGC	371
Db	301	CCGAGTGGTCGACAGAGCTGTGCGAGGCGCGCGGGAAGAACGTGTGTGGCTTGGCTTGGC	360
QY	372	GCTGCTGAGACGGGGCGCGGGGGGCCCCCGAGGCGCTTACCAACAGCGTGGCGACGTA	431
Db	361	GCTGCTGAGACGGGGCGCGGGGGGCCCCCGAGGCGCTTACCAACAGCGTGGCGACGTA	420
QY	432	CCTGCCCAACACGGTGTACCGACGCACTGGCGGGGGAGCGGGGGCGTGGGGGCTGCTGCTGC	491
Db	421	CCTGCCCAACACGGTGTGTACCGACGCACTGGCGGGGGAGCGGGGGCGTGGGGGCTGCTGCTGC	480
QY	492	CCGCTGGGCGAGACGTCGTGGTTCACCTGCTGGGACGCTGGCGGCTCTTGTGCTGGT	551
Db	481	CCGCTGGGCGAGACGTCGTGGTTCACCTGCTGGGACGCTGGCGGCTCTTGTGCTGGT	540
QY	552	GGCTCCCAAGCTCGCCCTACAGAGTGTGGGGCGCGCGCTGTATACAGCTGGCGCTGCAC	611
Db	541	GGCTCCCAAGCTCGCCCTACAGAGTGTGGGGCGCGCGCTGTATACAGCTGGCGCTGCAC	600
QY	612	TCAGGCGCGGGCCCGCGCCACACGCTGTGTGGAACCCGGAAGCGTGTGGGAGTGGCAAGCGGC	671
Db	601	TCAGGCGCGGGCCCGCGCCACACGCTGTGTGGAACCCGGAAGCGTGTGGGAGTGGCAAGCGGC	660
QY	672	CTGGAACCATTAACGTCGTAGGAGGAGCGCGGGTCCCTCTGGGCGTTCACAGCCCGGGGTGGAG	731
Db	661	CTGGAACCATTAACGTCGTAGGAGGAGCGCGGGTCCCTCTGGGCGTTCACAGCCCGGGGTGGAG	720
QY	732	GAGGGCGGGGGGACAGTCCAGCCAGCGGAAGTCTGCCGTTGCCAAGAAGCCCAAGGCGTGGCGC	791
Db	721	GAGGGCGGGGGGACAGTCCAGCCAGCGGAAGTCTGCCGTTGCCAAGAAGCCCAAGGCGTGGCGC	780
QY	792	TGCCCTGTGAGCGGAGCGAGCCCGCTTGTGGGACGGGGTCTTGGGCCACCCCGGGCAGAGAC	851
Db	781	TGCCCTGTGAGCGGAGCGAGCCCGCTTGTGGGACGGGGTCTTGGGCCACCCCGGGCAGAGAC	840
QY	852	GCGTGGACCGAGTGAACCGTGGTTCGTGTGTGTGTACCTGCAGACCGCGGCAAGAGAC	911
Db	841	GCGTGGACCGAGTGAACCGTGGTTCGTGTGTGTGTACCTGCAGACCGCGGCAAGAGAC	900
QY	912	CACCTCTTTGGAGGGGTGCGCTCTCTGTGGACAGCGCCACTCCACCAATCCGTGGGGCGGCA	971
Db	901	CACCTCTTTGGAGGGGTGCGCTCTCTGTGGACAGCGCCACTCCACCAATCCGTGGGGCGGCA	960
QY	972	GCACCAAGCGGGGCCCGCCATCCACATCGCGGGCCACACGTCCTCTGGGACACGCTGTCC	1031
Db	961	GCACCAAGCGGGGCCCGCCATCCACATCGCGGGCCACACGTCCTCTGGGACACGCTGTCC	1020
QY	1032	CCCGGTGTACGGCGGAGACCAAGACTTCTCTACTCTCTCAGGGGACAAAGAGAGCTGGC	1091
Db	1021	CCCGGTGTACGGCGGAGACCAAGACTTCTCTACTCTCTCAGGGGACAAAGAGAGCTGGC	1080
QY	1092	GCGCTCTTCTACTAGCTCTCTGTAGAGGCCAGCGCTGAGCTGGGGCTCGAGAGCTCGTGA	1151
Db	1081	GCGCTCTTCTACTAGCTCTCTGTAGAGGCCAGCGCTGAGCTGGGGCTCGAGAGCTCGTGA	1140
QY	1152	GACCATCTTTCGTGGGTCCAGGCGCTTGATGCCAGGACTCCCGCGAGTGTGCCCGGCT	1211
Db	1141	GACCATCTTTCGTGGGTCCAGGCGCTTGATGCCAGGACTCCCGCGAGTGTGCCCGGCT	1200

1212 GCCCAGCGCTACTGCGAAATGCGGCCCTGTTTCTGAGCTGCTGGGAACACGCGCA 1271
1201 GCCCCAGGCTTACTGGGAAATGCGGCCCTGTTTCTGAGCTGCTGGGAACACGCGCA 1260
1272 GTGCCCCAGGCGGTGCTCTCAAGACGACCTGCGCGGTGGAGGTGGGTCAACCCAGC 1331
1261 GTGCCCCAGGCGGTGCTCTCAAGACGACCTGCGCGGTGGAGGTGGGTCAACCCAGC 1320
1332 AGCGGCTGTGTGCGCGCGGAGAACCCAGAGGCTCTGTGGCGGCCCCGAGAGAGAGA 1391
1321 AGCGGCTGTGTGCGCGCGGAGAACCCAGAGGCTCTGTGGCGGCCCCGAGAGAGAGA 1380
1392 CACAGACCCCGTGGCGCGGTGGAGAACCCAGAGGCTCTGTGGCGGCCCCGAGAGAGAGA 1451
1381 CACAGACCCCGTGGCGCGGTGGAGAACCCAGAGGCTCTGTGGCGGCCCCGAGAGAGAGA 1440
1452 CGGCTTCTGCGGCGGCTGCTGCGCGCGGCTGGTGGCGGCCCCAGAGGCTCTGTGGCGG 1511
1441 CGGCTTCTGCGGCGGCTGCTGCGCGCGGCTGGTGGCGGCCCCAGAGGCTCTGTGGCGG 1500
1512 CACGAGACGCGCTTCTCTCAGGAACACCAAGAGTTCTCTCCGAGGAGACATGCCAA 1571
1501 CACGAGACGCGCTTCTCTCAGGAACACCAAGAGTTCTCTCCGAGGAGACATGCCAA 1560
1572 GCTCTCGGTGAGAGCTGAGCTGGAAGATGAGCGTGGGAGCTGCGCTTGGCTGCGAG 1631
1561 GCTCTCGGTGAGAGCTGAGCTGGAAGATGAGCGTGGGAGCTGCGCTTGGCTGCGAG 1620
1632 GAGCCAGAGGCGTGGCTGCTGCGCGCGGAGAGACCGCTGCTGAGAGAGATCTGAGC 1691
1621 GAGCCAGAGGCGTGGCTGCTGCGCGCGGAGAGACCGCTGCTGAGAGAGATCTGAGC 1680
1692 CAACTTCTGCACTGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1751
1681 CAACTTCTGCACTGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1740
1752 TGTACGAGAGACGCTTCTCAAAAGAACAGGCTCTTCTTCTACGAGAGAGATGCTGAG 1811
1741 TGTACGAGAGACGCTTCTCAAAAGAACAGGCTCTTCTTCTACGAGAGAGATGCTGAG 1800
1812 CAACTTCTGCAAGCTTGGATCAGACGACTTGAAGAGGTGACGCTGCGGAGCTGTC 1871
1801 CAACTTCTGCAAGCTTGGATCAGACGACTTGAAGAGGTGACGCTGCGGAGCTGTC 1860
1872 GGAAGCAGAGCTCAGGACGACTCGGGAAGCCAGCCGCTGCTGACGCTCAGACTCG 1931
1861 GGAAGCAGAGCTCAGGACGACTCGGGAAGCCAGCCGCTGCTGACGCTCAGACTCG 1920
1932 CTTTCATCCCAAGGCTGACGCGGCTGCGGCGGATGTAACATGAGCTACGTCGTGGAGC 1991
1921 CTTTCATCCCAAGGCTGACGCGGCTGCGGCGGATGTAACATGAGCTACGTCGTGGAGC 1980
1992 CAGAAGCTTCCGACAGAGAGAGAGGCGGAGCTGCTCAGCTGAGAGGTGAAGGCACTGT 2051
1981 CAGAAGCTTCCGACAGAGAGAGAGGCGGAGGCTGCTCAGCTGAGAGGTGAAGGCACTGT 2040
2052 CAGGCTGCTCACTACGAGAGGCGGCGGCGGCGGCTGCTGAGGCGCTCTGTGCTGG 2111
2041 CAGGCTGCTCACTACGAGAGGCGGCGGCGGCGGCGGCTGCTGAGGCGCTCTGTGCTGG 2100
2112 CTTTCATCCCAAGGCTGACGCGGCTGCGGCGGATGTAACATGAGCTACGTCGTGGAGC 2171
2101 CTTTCATCCCAAGGCTGACGCGGCTGCGGCGGATGTAACATGAGCTACGTCGTGGAGC 2160
2172 GCGCGCTGAGCTGCTTGTCAAGAGTGGATGTAAGGCGGCTGACGAGACATCCCA 2231
2161 GCGCGCTGAGCTGCTTGTCAAGAGTGGATGTAAGGCGGCTGACGAGACATCCCA 2220
2232 GGAAGGCTCAGAGAGGCTCAGCGAGCATCAAAACCCAGAAACAGTACTGCTGCG 2291
2221 GGAAGGCTCAGAGAGGCTCAGCGAGCATCAAAACCCAGAAACAGTACTGCTGCG 2280
2292 TCGGTATGCGGTGGTCCAGAGAGGCGGCGGAGGAGCTGCGCAAGGCTTCAAGAGCA 2351

|||||
2281 TCGGTATGCGGTGGTCCAGAGAGGCGGCGGATGGGACGCTCCAGAGGCTTCAAGAGCA 2340
2352 GCTCTACCTTGAAGAGACCTCCAGCGTACATGGAGAGTGGGTGACCTCAGCAGAGA 2411
2341 GCTCTACCTTGAAGAGACCTCCAGCGTACATGGAGAGTGGGTGACCTCAGCAGAGA 2400
2412 GAGCAGCCGCTGAGAGGATGCGGTGATCAGAGCAGAGCTCCCTGTAATGAGCGAG 2471
2401 GAGCAGCCGCTGAGAGGATGCGGTGATCAGAGCAGAGCTCCCTGTAATGAGCGAG 2460
2472 CAGTGGCTTCTTCAAGAGCTTCTTACGCTTCAATGTCACACAGCGCGCTGATGAGGG 2531
2461 CAGTGGCTTCTTCAAGAGCTTCTTACGCTTCAATGTCACACAGCGCGCTGATGAGGG 2520
2532 CAGTGGCTTCTTCAAGAGCTTCTTACGCTTCAATGTCACACAGCGCGCTGATGAGGG 2591
2521 CAGTGGCTTCTTCAAGAGCTTCTTACGCTTCAATGTCACACAGCGCGCTGATGAGGG 2580
2592 CAGCTGTGCTACGCGGACATGAGAGACAGCTGTTTGGGAGATTGGGAGCGGAGCT 2651
2581 CAGCTGTGCTACGCGGACATGAGAGACAGCTGTTTGGGAGATTGGGAGCGGAGCT 2640
2652 GCTCTGCGTGGTGGTGGATGATTTCTTGTGGTGAACCTCAGCTCAGCGGAGAAAC 2711
2641 GCTCTGCGTGGTGGTGGATGATTTCTTGTGGTGAACCTCAGCTCAGCGGAGAAAC 2700
2712 CTTCTCAGAGACCGCTGCTGCGGAGTGTCCCTGATGATGATGATGATGATGATGAT 2771
2701 CTTCTCAGAGACCGCTGCTGCGGAGTGTCCCTGATGATGATGATGATGATGATGAT 2760
2772 GACAGTGTGAACCTTCTCTGTAAGAGAGGCGCTGGGTGGACAGGCTTTTGTTCAGAT 2831
2761 GACAGTGTGAACCTTCTCTGTAAGAGAGGCGCTGGGTGGACAGGCTTTTGTTCAGAT 2820
2832 GCGGCGCCAGCGGCTAT 2848
2821 GCGGCGCCAGCGGCTAT 2837

RESULT 3
US-09-843-676-224
; Sequence 224, Application US/09843676
; Patent No. US20020164786A1
; GENERAL INFORMATION:
; APPLICANT: Cech, Thomas R.
; Linquert, Joachim
; Nakamura, Toru
; Chapman, Karen B.
; Morin, Gregg B.
; Harley, Calvin
; Andrews, William H.
; TITLE OF INVENTION: No. US20020164786A1el Telomerase
; NUMBER OF SEQUENCES: 225
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, 8th Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: United States of America
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/843,676
; FILING DATE: 26-Apr-2001
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/854,050
; FILING DATE: 09-MAY-1997

LENGTH: 4015 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 56..3454
OTHER INFORMATION: /product= "human telomerase reverse
transcriptase (hTRT)"
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-953-052-1

Query Match 99.6%; Score 2837; DB 10; Length 4015;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GGAGGCGTGGCTGCTGCGACGCGGGAAGCCCGCGGCCACCCCGCATGGC 71
DB 1 GAGGCGTGGCTGCTGCGACGCGGGAAGCCCGCGGCCACCCCGCATGGC 60
QY 72 GCGCGTCCCGCTGCGGAGCGGTGCGCTCCCTGCTGCGCAGCCACTACCGGAGGTG 131
DB 61 GCGCGTCCCGCTGCGGAGCGGTGCGCTCCCTGCTGCGCAGCCACTACCGGAGGTG 120
QY 132 GCGCGTGGCGACGTTGTCGCGCGCTGGGCGCCAGGCGTGGCGGCTGTCAGCGCG 191
DB 121 GCGCGTGGCGACGTTGTCGCGCGCTGGGCGCCAGGCGTGGCGGCTGTCAGCGCG 180
QY 192 GGACCGGGGGGTTTCCGGCGCTGGTGGCCAGTCCCTGCTGGTGGTCCCTCGGGACG 251
DB 181 GGACCGGGGGGTTTCCGGCGCTGGTGGCCAGTCCCTGCTGGTGGTCCCTCGGGACG 240
QY 252 ACGCGCGCCCGCGCGCCCGCTCTCTCCCGCAGGTGTCCTGCTGAAGAGTGGTGGC 311
DB 241 ACGCGCGCCCGCGCGCCCGCTCTCTCCCGCAGGTGTCCTGCTGAAGAGTGGTGGC 300
QY 312 CCGAGTGTCTGAGAGGCTGTGCGAGCGCGCGCGGAAGAACGTGCTGGCTTGGCTGCG 371
DB 301 CCGAGTGTCTGAGAGGCTGTGCGAGCGCGCGCGGAAGAACGTGCTGGCTTGGCTGCG 360
QY 372 GCTGCTGAGCGGGGCGCGGGGGGCGCCCGGAGGCTTACACACAGGATGGCGACGTA 431
DB 361 GCTGCTGAGCGGGGCGCGGGGGGCGCCCGGAGGCTTACACACAGGATGGCGACGTA 420
QY 432 CCGTGGCCAAACAGGTGACGACGACACTGCGGGGAGCGGGGCTGGGCTGCTGCTGG 491
DB 421 CCGTGGCCAAACAGGTGACGACGACACTGCGGGGAGCGGGGCTGGGCTGCTGCTGG 480
QY 492 CCGCGTGGGCGAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 551
DB 481 CCGCGTGGGCGAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
QY 552 GCGTCCACAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 611
DB 541 GCGTCCACAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
QY 612 TTAGGCGCGCGCCCGCGCACACGCTAGTGGACCCCGCAAGGCGTCTGGGATGCGAACGG 671
DB 601 TTAGGCGCGCGCCCGCGCACACGCTAGTGGACCCCGCAAGGCGTCTGGGATGCGAACGG 660
QY 672 CTGGAAACATAGCGTGAAGGAGCGGGGTCCCGCTGGGCTGCGACGCGCGGGTGGAG 731
DB 661 CTGGAAACATAGCGTGAAGGAGCGGGGTCCCGCTGGGCTGCGACGCGGGTGGAG 720
QY 732 GAGGCGCGGGGCGAGTGGCCAGCGAAGTCTGCGGTTGGCCCAAGAGGCCACAGGCGGCG 791
DB 721 GAGGCGCGGGGCGAGTGGCCAGCGAAGTCTGCGGTTGGCCCAAGAGGCCACAGGCGGCG 780
QY 792 TCGCCCTGAGCGCGAGCGGACGCCGCTTGGGCGAGGGGTCTTGGGCCACCCCGGGCAGAC 851
DB 781 TCGCCCTGAGCGCGAGCGGACGCCGCTTGGGCGAGGGGTCTTGGGCCACCCCGGGCAGAC 840

QY 852 GCGTGGACCGAGTGAACCGGTGTTCTGTGTGTGTGTAACCTGCGACGACCCGCGAAGAC 911
DB 841 GCGTGGACCGAGTGAACCGGTGTTCTGTGTGTGTGTAACCTGCGACGACCCGCGAAGAC 900
QY 912 CACCTCTTTTGGAGGGGCGCTCTCTGCGACGGCCACTCCCAACCCATCCGTGGGCGGCA 971
DB 901 CACCTCTTTTGGAGGGGCGCTCTCTGCGACGGCCACTCCCAACCCATCCGTGGGCGGCA 960
QY 972 GCACACAGGCGCGCCCGCATCCATCGGCGGCGACACGCTGCTGGGAGACGCTTGTCC 1031
DB 961 GCACACAGGCGCGCGCCCGCATCCATCGGCGGCGACACGCTGCTGGGAGACGCTTGTCC 1020
QY 1032 CCGGCTGTAGCGCGGAGACCAAGCATCTCTACTCTCTAGCGGACAGGACAGCGTGG 1091
DB 1021 CCGGCTGTAGCGCGGAGACCAAGCATCTCTACTCTCTAGCGGACAGGACAGCGTGG 1080
QY 1092 GCGCT 1151
DB 1081 GCGCT 1140
QY 1152 GACCATCTTCTTGGGTTCCAGAGCGCTGATGCGAGGAGCTCCCGCAGGTTGGCCCGCT 1211
DB 1141 GACCATCTTCTTGGGTTCCAGAGCGCTGATGCGAGGAGCTCCCGCAGGTTGGCCCGCT 1200
QY 1212 GCGCCAGCGCTACTGCGCAAAATGCGGCCCTGTTCTGAGAGCTGCTTGGGAACACGCGCA 1271
DB 1201 GCGCCAGCGCTACTGCGCAAAATGCGGCCCTGTTCTGAGAGCTGCTTGGGAACACGCGCA 1260
QY 1272 GCGCCCT 1331
DB 1261 GCGCCCT 1320
QY 1332 AGCGGCTGTCTGTGCGCGGAGAGAGCCCGCAGGCTGTGCGCGCGCCCGCAGAGAGAGA 1391
DB 1321 AGCGGCTGTCTGTGCGCGGAGAGAGCCCGCAGGCTGTGCGCGCGCCCGCAGAGAGAGA 1380
QY 1392 CACAGACCCCGCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1451
DB 1381 CACAGACCCCGCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1440
QY 1452 CCGCTCTGTGCGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1511
DB 1441 CCGCTCTGTGCGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
QY 1512 CAACGAACCGCGCTTCTCTAGGAACAACAAGATTCATCTCCCTGGGGAAGCATGCCAA 1571
DB 1501 CAACGAACCGCGCTTCTCTAGGAACAACAAGATTCATCTCCCTGGGGAAGCATGCCAA 1560
QY 1572 GCTCTGCTGCGAGGAGCTGACGTGGAAGATGACGCTGCGGAGCTGCGCTGCGGAG 1631
DB 1561 GCTCTGCTGCGAGGAGCTGACGTGGAAGATGACGCTGCGGAGCTGCGCTGCGGAG 1620
QY 1632 GAGCCAGGAGGTTGGGCTGTGTTCCGGCCGAGAGACCGGCTGCGAGAGATCCGCGC 1691
DB 1621 GAGCCAGGAGGTTGGGCTGTGTTCCGGCCGAGAGACCGGCTGCGAGAGATCCGCGC 1680
QY 1692 CAACTTCTGCACTGCGCTGATGATGATGATGATGATGATGATGATGATGATGATG 1751
DB 1681 CAACTTCTGCACTGCGCTGATGATGATGATGATGATGATGATGATGATGATGATG 1740
QY 1752 TGTACAGGAGACCACTTTCAAAAAGACGCTTTTCTTACCGGAAGAGTGTGGAG 1811
DB 1741 TGTACAGGAGACCACTTTCAAAAAGACGCTTTTCTTACCGGAAGAGTGTGGAG 1800
QY 1812 CAACTTCTGCAAGCATGGAATCGAAGACCTTGAAGAGGATCAGCTGGGAGGCGTGC 1871
DB 1801 CAACTTCTGCAAGCATGGAATCGAAGACCTTGAAGAGGATCAGCTGGGAGGCGTGC 1860
QY 1872 GGAAGCAGAGTCTAGGACAGCATCGGGAAGCGAGGCCGCTCTGACGTCAGACTCCG 1931
DB 1861 GGAAGCAGAGTCTAGGACAGCATCGGGAAGCGAGGCCGCTCTGACGTCAGACTCCG 1920
QY 1932 CTTCACTCCCAAGCTGACGGGCTGCGGCCGATTTGGAACATGAGCTACGTCGTGGAGC 1991

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Db      1921  CTTATCCCCCAAGGCTGACGGGCTGGGCGCATTTGTGAACATGGAATCAATGCTGGGAGC 1980
QY      1992  CAGAACGTTCCGCGAGAGAAAGAGGGCCGACGCTCTACCTCGAGGGGGAAGGCACTCTT 2051
Db      1981  CAGAACGTTCCGCGAGAGAAAGAGGGCCGACGCTCTACCTCGAGGGGGAAGGCACTCTT 2040
QY      2052  CAGCGTGTCACTACAGAGGCGGGCGCGCGCCCTCTGGGGCGCTCTGTGTGGG 2111
Db      2041  CAGCGTGTCACTACAGAGGCGGGCGCGCGCCCTCTGGGGCGCTCTGTGTGGG 2100
QY      2112  CCGGAGGATATCCAGAGGGCGCTGGCGACTTGTGTGTGTGGGGCGCGAGAGCC 2171
Db      2101  CTTGGAGATATCCAGAGGGCGCTGGCGACTTGTGTGTGTGGGGCGCGAGAGCC 2160
QY      2172  GCCGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2231
Db      2161  GCCGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2220
QY      2232  GGACAGGCTACGAGAGGTATGCGCAGCATCATCAAAACCCAGAACAGTACTGCTGG 2291
Db      2221  GGACAGGCTACGAGAGGTATGCGCAGCATCATCAAAACCCAGAACAGTACTGCTGG 2280
QY      2292  TCGGTATGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2351
Db      2281  TCGGTATGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2340
QY      2352  CGTCTTACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2411
Db      2341  CGTCTTACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2400
QY      2412  GACACAGCCGCGTGAGGAGTCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2471
Db      2401  GACACAGCCGCGTGAGGAGTCCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2460
QY      2472  CAGTGGCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2531
Db      2461  CAGTGGCTCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2520
QY      2532  CAACTCTTACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2591
Db      2521  CAACTCTTACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2580
QY      2592  CAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2651
Db      2581  CAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2640
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QY      2712  CTTCTCAGAGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2771
Db      2701  CTTCTCAGAGACCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2760
QY      2772  GACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2831
Db      2761  GACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2820
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Db      2821  GCCGCGCGCGCGCTAT 2837

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RESULT 5
US-10-053-758-224

; Sequence 224, Application US/10053758
; Publication No. US20030032075A1

; GENERAL INFORMATION:

; APPLICANT: Cech, Thomas R.
; Lininger, Joachim
; Nakamura, Toru
; Chapman, Karen B.

```

;      Morla, Gregg B.  
;      Harley, Calvin  
;      Andrews, William H.  
;      TITLE OF INVENTION: No. US20030032075A1 Telomerase  
;      NUMBER OF SEQUENCES: 225  
;      CORRESPONDENCE ADDRESS:  
;      ADDRESSEE: Townsend and Townsend and Crew LLP  
;      STREET: Two Embarcadero Center, 8th Floor  
;      CITY: San Francisco  
;      STATE: California  
;      COUNTRY: United States of America  
;      ZIP: 94111  
;      COMPUTER READABLE FORM:  
;      MEDIUM TYPE: Floppy disk  
;      COMPUTER: IBM PC compatible  
;      OPERATING SYSTEM: PC-DOS/MS-DOS  
;      SOFTWARE: Patent Release #1.0, Version #1.30  
;      CURRENT APPLICATION DATA:  
;      APPLICATION NUMBER: US/10/053,758  
;      FILING DATE: 18-Jan-2002  
;      CLASSIFICATION: 536  
;      PRIOR APPLICATION DATA:  
;      APPLICATION NUMBER: US/08/854,050  
;      FILING DATE: 09-MAY-1997  
;      APPLICATION NUMBER: US 08/851,843  
;      FILING DATE: 06-MAY-1997  
;      APPLICATION NUMBER: US 08/846,017  
;      FILING DATE: 25-APR-1997  
;      APPLICATION NUMBER: US 08/844,419  
;      FILING DATE: 18-APR-1997  
;      APPLICATION NUMBER: US 08/724,643  
;      FILING DATE: 01-OCT-1996  
;      ATTORNEY/AGENT INFORMATION:  
;      NAME: Apple, Randolph T.  
;      REGISTRATION NUMBER: 36,429  
;      REFERENCE/DOCKET NUMBER: 015389-002930US  
;      TELECOMMUNICATION INFORMATION:  
;      TELEPHONE: (415) 576-0200  
;      TELEFAX: (415) 576-0300  
;      INFORMATION FOR SEQ ID NO: 224:  
;      SEQUENCE CHARACTERISTICS:  
;      LENGTH: 4015 base pairs  
;      TYPE: nucleic acid  
;      STRANDEDNESS: single  
;      TOPOLOGY: linear  
;      MOLECULE TYPE: cDNA  
;      FEATURE:  
;      NAME/KEY: CDS  
;      LOCATION: 56..3454  
;      OTHER INFORMATION: /product="hTERT"  
;      /note="human telomerase reverse  
;      transcriptase (hTERT) catalytic protein  
;      component"  
;      SEQUENCE DESCRIPTION: SEQ ID NO: 224:  
US-10-053-758-224  
Query Match 99.6%; Score 2837; DB 14; Length 4015;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY      12  GCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 71  
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QY      132  GCCGCTGCGCAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 191  
Db      121  GCCGCTGCGCAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 180  
QY      192  GGACCGCGCGCGCTTCCGCGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 251

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OY 312 CCGAGTGTGCAGAGGCTGTGCGAGCGCGGCGCGAAGAACGTGTGCGCTTGGCTTGGC 371
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Db 361 GCTGTGAGAGGGGGCGCGGGGGCGCGCGAGGCGCTTACACACAGCTGTGCGAGCTA 420
OY 432 CCGCGCAACACAGGTGAGCGAGCGACTGCGGGGAGAGCGGGCGTGGGGCTCTGCTGCG 491
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OY 1272 GTGCGCCCTACGAGGGGTGCTCTCAAGACGACTGCCCGCTGGAGGTGGGGGTACCCGAGC 1331
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Db 1381 CACAGACCCCGGTGCGCTGT 1440
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Db 1441 GCGGCTGTGAGGGGCTGCG 1500
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OY 1812 CAAGTTCGAAACATTTGGAATCAGACAGACTTGAAGAGGTGTGACGTGCGGAGCTGTGC 1871
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Db 1921 CTTCATCCCAAGCTGTACGGGCTGTGGCGCATTTGTGAACATGTACTGTGTGGAGC 1980
OY 1992 CAGAAGTTCGCGCAGAGAAAGAGGGCGAGGCTGTCAACCTGTGAGAGGTGAAGCACTGT 2051
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Db 2041 CAGCGTGTCTCAACTAGAGCGGGCGCGCGCGCGCGCGCGCGCGCTCTGTGTGGG 2100
OY 2112 CCTGAGCATATCAAGAGGCGTGGCGCACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2171
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Db 2161 GCGGCGCTAGCGTGTCTTGTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2220
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OY 2352 GGTCTCTCACTTGAAGACACTTCCAGCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2411
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OY	2412	GACCAGCCCGGTGAGGAGTGGCCGTCGTGCATCGACACAGCTCTCTCCCTGAATGAGCCAG	2471
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OY	2472	CAGTGGCCCTTTCACAGCTTCCTACGGTTCATGTGCCACACAGCCGCGGCATCAGGGG	2531
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OY	2532	CAGTCTCCTAGCTCCAGTGTCCAGGGGATCCGCGAGGGCTCCATCCTCTTCACAGCTGCTGTG	2591
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RESULT 6
US-10-208-243-1
: Sequence 1, Application US/10208243
: Publication No. US20030044394A1
: GENERAL INFORMATION:
: APPLICANT: Gaeta, Federico C.A.
: TITLE OF INVENTION: Methods and Compositions for Eliciting an Immune
: FILE REFERENCE: Response to a Telomerase Antigen
: CURRENT APPLICATION NUMBER: US/10/208,243
: CURRENT FILING DATE: 2002-07-30
: PRIOR APPLICATION NUMBER: US/09/675,321
: PRIOR FILING DATE: 2000-09-28
: PRIOR APPLICATION NUMBER: US 60/112,006
: PRIOR FILING DATE: 1998-03-31
: PRIOR APPLICATION NUMBER: WO PCT/US99/06898
: PRIOR FILING DATE: 1999-03-30
: NUMBER OF SEQ ID NOS: 2
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 1
:- LENGTH: 4015
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (36)..(3454)
: OTHER INFORMATION: human telomerase reverse transcriptase (hTERT)
US-10-208-243-1

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	Query Match	99.6%	Score 2837;	DB 14;	Length 4015;
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QY 2832 GCCGCCCAAGGCGCTAT 2848

Db 2821 GCCGCCCAAGGCGCTAT 2837

RESULT 7

US-10-054-295-224

Sequence 224, Application US/10054295

Publication No. US20030044953A1

GENERAL INFORMATION:

APPLICANT: Cech, Thomas R.

Lingner, Joachim

Nakamura, Toru

Chapman, Karen B.

Morlin, Gregg B.

Harley, Calvin

Andrews, William H.

TITLE OF INVENTION: No. US20030044953A1el Telomerase

NUMBER OF SEQUENCES: 225

CORRESPONDENCE ADDRESS:

ADDRESSER: Townsend and Townsend and Crew LLP

STREET: Two Embarcadero Center, 8th Floor

CITY: San Francisco

STATE: California

COUNTRY: United States of America

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/054,295

FILING DATE: 18-Jan-2002

CLASSIFICATION: 536

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/854,050
FILING DATE: <unknown>
APPLICATION NUMBER: US 08/846,017
FILING DATE: 25-APR-1997
APPLICATION NUMBER: US 08/844,419
FILING DATE: 18-APR-1997
APPLICATION NUMBER: US 08/724,643
FILING DATE: 01-OCT-1996
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 015389-002930US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 224:
SEQUENCE CHARACTERISTICS:
LENGTH: 4015 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cdna
FEATURE:
NAME/KEY: CDS
LOCATION: 56..3454
OTHER INFORMATION: /product= "hprt"
/note= "human telomerase reverse
transcriptase (hprt) catalytic protein
component"
SEQUENCE DESCRIPTION: SEQ ID NO: 224:
us-10-054-295-224

Query Match 99.68; Score 2837; DB 14; Length 4015;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 121 GCGGCTGCGACGTTCTGTCGGCGCTTGCGGCCGCCAGGCGTGGCGGTGTGTGACGCGG 180
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QY 252 AGGCGCGCGCCCGCGCGCCCTCTTCCGCCAGGTGTCTGTGTGTGTGTGTGTGTGTGTGT 311
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Db 301 CCGAGT 360
QY 372 GCTCTGT 431
Db 361 GCTCTGT 420
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Db 421 CCTGCCCAACAGGT 480
QY 492 CCGGCTGT 551
Db 481 CCGGCTGT 540
QY 552 GGCTCCCAAGT 611

Db 541 GGCTCCCAAGT 600
QY 612 TCAGGCGCGGCG 671
Db 601 TCAGGCGCGGCG 660
QY 672 CTGGAACCATAGCGT 731
Db 661 CTGGAACCATAGCGT 720
QY 732 GAGGCGCGGCG 791
Db 721 GAGGCGCGGCG 780
QY 792 TGCCCTGT 851
Db 781 TGCCCTGT 840
QY 852 GCGT 911
Db 841 GCGT 900
QY 912 CACCTCTTGT 971
Db 901 CACCTCTTGT 960
QY 972 GCACCGACGCGGCG 1031
Db 961 GCACCGACGCGGCG 1020
QY 1032 CCGGCTGT 1091
Db 1021 CCGGCTGT 1080
QY 1092 GCGGCTGT 1151
Db 1081 GCGGCTGT 1140
QY 1152 GACCATCTTGT 1211
Db 1141 GACCATCTTGT 1200
QY 1212 GCCCGACGCGT 1271
Db 1201 GCCCGACGCGT 1260
QY 1272 GTGCGGCTGT 1331
Db 1261 GTGCGGCTGT 1320
QY 1332 AGCGGCTGT 1391
Db 1321 AGCGGCTGT 1380
QY 1392 CACAGACCG 1451
Db 1381 CACAGACCG 1440
QY 1452 CGGCTGT 1511
Db 1441 CGGCTGT 1500
QY 1512 CAAAGAACG 1571
Db 1501 CAAAGAACG 1560
QY 1572 GCTCTGT 1631
Db 1561 GCTCTGT 1620
QY 1632 GAGGCGCGGCG 1691

Query Match	99.6%;	Score 2837;	DB 14;	Length 4015;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2837;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
OY	12	GCAGGGCGGCGCCGCGGACGACGTGGGAGACCCCTGGCCCCCGGCACACCCCGGAGTACC	71	
Db	1	GCAGGGCGGCGCTCCGTGCGCCACGTGGGAGACCCCTGGCCCCCGGCACACCCCGGAGTACC	60	
OY	72	GCGGGCTCCCGCGCTGCGCAGCCGCGTGGCGCTCCCTGCTGGCAGCCACTACCGAGAGTGC	131	
Db	61	GCGGGCTCCCGCGCTGCGCAGCCGCGTGGCGCTCCCTGCTGGCAGCCACTACCGAGAGTGC	120	
OY	132	GCCTGTGGCCACACTTTCGTGGCGCGCTTGGGCCCCAGGGCTTGGCGGCTGTGTGACCGCGG	191	
Db	121	GCCTGTGGCCACACTTTCGTGGCGCGCGCTTGGGCCCCAGGGCTTGGCGGCTGTGTGACCGCGG	180	
OY	192	GGACCCGGCGGCGCTTTCGCGCGCGCGTGGTGGCCAGTGCCTGGTGTGGCGCGCCCTGGAGCG	251	
Db	181	GGACCCGGCGGCGCTTTCGCGCGCGCGTGGTGGCCAGTGCCTGGTGTGGCGCGCCCTGGAGCG	240	
OY	252	ACGGCGCGCCCCCGCGCGCGCGCGCTCCCTCCGCGCAGGTGTCTCTGCGCTGAGAGAGCTGTGGC	311	
Db	241	ACGGCGCGCCCCCGCGCGCGCGCGCTCCCTCCGCGCAGGTGTCTCTGCGCAGAGTGTCTCTGCGCAGAGAGAGCTGTGGC	300	
OY	312	CCGAGTGTGTGAGAGAGCTGTGTGCGAGCGCGCGCGCGAGAAAGCTGCTGGCTTTCGGCTTGC	371	
Db	301	CCGAGTGTGTGAGAGAGCTGTGTGCGAGCGCGCGCGCGAGAAAGCTGTGTGGCTTTCGGCTTGC	360	
OY	372	GCTGCTGAGACGGGGGCGCGCGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	431	
Db	361	GCTGCTGAGACGGGGGCGCGCGGGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG	420	
OY	432	CCTGCGCCAAACGGGTGACCGGACGACACTGCGGGGGAGCGGGCGGTGGGGGCTGCTGTGCTCG	491	
Db	421	CCTGCGCCAAACGGGTGAGACCGGACGACACTGCGGGGGAGCGGGCGGTGGGGGCTGCTGTGCTCG	480	
OY	492	CCGGGTGGGGCCACAGCACTGCTGTGTTCACACTGCTGTGACAGCTGTGCGCGCTTTCGTGTGCTGT	551	
Db	481	CCGGGTGGGGCCACAGCACTGCTGTGTTCACACTGCTGTGACAGCTGTGCGCGCTTTCGTGTGCTGT	540	
OY	552	GGCTGCCACGCTGCGCTACACAGGTGTGGGGGCGCGCGCTGTACAGCACTGCGCGCGCGCAC	611	
Db	541	GGCTGCCACGCTGCGCTTACAGGTGTGGGGGCGCGCGCTGTACAGCACTGCGCGCGCGCAC	600	
OY	612	TCAGGGCCCGGCGCGCGCGCACACGCTAGTGAAGCCCGGAAGGCGCTGGGATGCGAAACGGCG	671	
Db	601	TCAGGGCCCGGCGCGCGCGCACACGCTAGTGAAGCCCGGAAGGCGCTGGGATGCGAAACGGCG	660	
OY	672	CTGGAACCAATAGCTCAGGAGAGGCGGGGGTCCCTGTGGGCTGCCAGCCCCGGGTGCGAG	731	
Db	661	CTGGAACCAATAGCTCAGGAGAGGCGGGGGTCCCTGTGGGCTGCCAGCCCCGGGTGCGAG	720	
OY	732	GAGGGCGGGGGGACAGTGGCAGCCGGAAGTCTGCGGTGGCCAAAGAGGCCAGGCGGGCG	791	
Db	721	GAGGGCGGGGGGACAGTGGCAGCCGGAAGTCTGCGGTGGCCAAAGAGGCCAGGCGGGCG	780	
OY	792	TGCCCTGAGCCGGAGCGGAGCGCCGTTTGGGCGAGGGGTCTTGGGCGCACCCGGGCGAGAGC	851	
Db	781	TGCCCTGAGCCGGAGCGGAGCGCCGTTTGGGCGAGGGGTCTTGGGCGCACCCGGGCGAGAGC	840	
OY	852	GCGTGGACCGAGTGAAGCTGT	911	
Db	841	GCGTGGACCGAGTGAAGCTGT	900	
OY	912	CACGCTTTTGGAGGGTGGCGTCTGTGGAGCGCGCACCTCCACACCCATCCGTGGGCGCGCA	971	
Db	901	CACGCTTTTGGAGGGTGGCGTCTGTGGAGCGCGCACCTCCACACCCATCCGTGGGCGCGCA	960	
OY	972	GCACACACCGGGGCG	1031	
Db	961	GCACACACCGGGGCG	1020	
OY	1032	CCCGGTGTACGCGGAGACCAAGCACTTCTACTCTCAGGCGCAAGAGAGCAAGTGGC	1091	

Db	1021	CCCGGTGTACCCCGAGACCAAGCACTTCTCTACTCCACAGGCGACAAGAGAGCACTGGC	1080
QY	1092	GCCCTCCCTTCTACGACACTCTCTGAGGCCACAGCTGACCTGAGCCCTGGAGAGCTGCTGGA	1151
Db	1081	GCCCTCCCTTCTACTACACTCTCTGAGGCCACAGCTGACCTGAGCCCTGGAGAGCTGCTGGA	1140
QY	1152	GACCATCTTCTTGAGGTTTCAGAGCCCTGGATCCAGAGGACTCCCGCAGAGTTGGCCCGCT	1211
Db	1141	GACCATCTTCTTGAGGTTTCAGAGCCCTGGATCCAGAGGACTCCCGCAGAGTTGGCCCGCT	1200
QY	1212	GCCCCAGCGCTACTGCGAATATGCGGCCCTGTCTTCTGAGCTGCTTGGGAACACAGCGCA	1271
Db	1201	GCCCCAGCGCTACTGCGAATATGCGGCCCTGTCTTCTGAGCTGCTTGGGAACACAGCGCA	1260
QY	1272	GTGCCCCACAGGGGGGTCCTCMAAGAGCACTGGCCCGCTGGAGACTCGCGTACCCAGC	1331
Db	1261	GTGCCCCACAGGGGGGTCCTCMAAGAGCACTGGCCCGCTGGAGACTCGCGTACCCAGC	1320
QY	1332	AGCCGGTCTGTGTGCCCGGAGAAAGCCCAAGGCTCTGTGTGGCGGCCCCCGCAGAGAGGA	1391
Db	1321	AGCCGGTCTGTGTGCCCGGAGAAAGCCCAAGGCTCTGTGTGGCGGCCCCCGCAGAGAGGA	1380
QY	1392	CACAGACCCCCGTGGCTGTGTGACAGCTCTCCGCACAGACAGACAGACCCCTGGCAGGTGA	1451
Db	1381	CACAGACCCCCGTGGCTGTGTGACAGCTCTCCGCACAGACAGACAGACCCCTGGCAGGTGA	1440
QY	1452	CGGCTTCTGTGGGGGGCTGCTGCGCGCGGGCTGGTGGCCCGCAGGCGCTCTGGGGGCTCAAGGA	1511
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QY	1572	GCTCTCGCTGCAGAGAGCTGACGTGGAGATGAGCTGCGGGACTGCGCTTGGCTGCGCAG	1631
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QY	1632	GAGCCACAGGGGTGGCTGTGTTCCGGCCGCGAGACACCGTGGTGGTAGAGAGATCCMGCC	1691
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QY	1752	TGTCAAGAGACCAACGTTTCAAAGAACAGGCTCTTTTCTACCGGAAAGTGTCTGGAG	1811
Db	1741	TGTCAAGAGACCAACGTTTCAAAGAACAGGCTCTTTTCTACCGGAAAGTGTCTGGAG	1800
QY	1812	CAAGTGTGAAGCAATTGGAAATCAGACAGCAATTAAAGGGGTGAGCTGGCGGGAGCTGTC	1871
Db	1801	CAAGTGTGAAGCAATTGGAAATCAGACAGCAATTAAAGGGGTGAGCTGGCGGGAGCTGTC	1860
QY	1872	GGAAGCAGAGGTCAAGCAGCATCGGGAAGCCAGGCCCGCTGTCTGAAGTCTCAACACTCG	1931
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Db	1921	CTTCATCCCAAGGCTGACGGGCTGCGGCGGATGTGAACATGGACTACGTCTGGGAGC	1980
QY	1992	CAGAACGTTCGGCAGAGAAAGAGAGGCCGACGCTCTACCTCGAGGGGTGAAGAGCACTGT	2051
Db	1981	CAGAACGTTCGGCAGAGAAAGAGAGGCCGACGCTCTACCTCGAGGGGTGAAGAGCACTGT	2040
QY	2052	CAGCGTGTCAACTACGAGCGGGCGCGGCCGCTCTTGGGCGGCTGTGTGCTGGG	2111
Db	2041	CAGCGTGTCAACTACGAGCGGGCGCGGCCGCTCTTGGGCGGCTGTGTGCTGGG	2100
QY	2112	CTGTGACGATATCCACAGGGGCTGGCGACCTTGTGTGTGCTGTGGGGGCCACAGGACC	2171

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Db 2101 CCTGGACGATATCAACAGGGCCCTGGGCGCACCTTCGTCGTGGGTGGGGCCCAAGACCC 2160
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Qy 2472 CAGTGGCTCTTTCGACAGCTTCTCTACGCTTCATGTGTCACACAGCCGCTGCGATCAGGG 2531
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Qy 2772 GACAGTGTGAACTTCCCTGTGAGAGACGAGCCCGGTGGCAGCGCTTTTGTTCAGAT 2831
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Qy 2832 GCCGGCCCAAGGCTTAT 2848
Db 2821 GCCGGCCCAAGGCTTAT 2837

RESULT 9
US-10-105-963-1
; Sequence 1, Application US/10105963
; Publication No. US20030068818A1
; GENERAL INFORMATION:
; APPLICANT: Geron Corporation
; APPLICANT: Deming, Chris
; APPLICANT: Clark, A. John
; APPLICANT: Schliff, J. Michael
; TITLE OF INVENTION: Animal Tissue with Carbohydrate Antigens Compatible for Human
; TITLE OF INVENTION: Transplantation and a Carbohydrate Determinant Selection System
; TITLE OF INVENTION: Recombination
; FILE REFERENCE: 731/002
; CURRENT APPLICATION NUMBER: US/10/105,963
; CURRENT FILING DATE: 2002-03-21
; PRIOR APPLICATION NUMBER: US 60/277,811
; PRIOR FILING DATE: 2001-03-21
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patent version 3.1
; SEQ ID NO 1
; LENGTH: 4015
; TYPE: DNA
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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (56)..(3454)
; OTHER INFORMATION:
US-10-105-963-1

Query Match      99.6%; Score 2837; DB 14; Length 4015;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2837; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 GCAAGCCTGCTGCTCTCTGCGACAGTGGGAAAGCCCTGCGCCCGGACACCCCGCGATGCC 71
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Qy 72 GCGCGCTCCCGCTGCGAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 131
Db 61 GCGCGCTCCCGCTGCGAGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
Qy 132 GCGCGTGGCCACGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 191
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Qy 192 GGAACCGGCGGCTTTCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 251
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Db 481 CCGCGTGGCGAGACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
Qy 552 GCGTCCACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 611
Db 541 GCGTCCACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
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Db 601 TCAGGCGCGGCGCCCGCCGACAGCTAGTGTGACCCGAAAGGCTGTGGATGTGCAAGCGGCG 660
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Qy 852 GCGTGTGACGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 911
Db 841 GCGTGTGACGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
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Db 901 CACCTCTTGTGAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
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US-10-044-692-1
; Sequence 1, Application US/10044692
; Publication No. US2003096344A1
; GENERAL INFORMATION:
; APPLICANT: Cech, Thomas R.
; Lininger, Joachim
; Nakamura, Toru
; Chapman, Karen B.
; Morlin, Gregg B.
; Harley, Calvin
; Andrews, William H.
; TITLE OF INVENTION: HUMAN TELOMERASE CATALYTIC SUBUNIT: DIAGNOSTIC AND
; THERAPEUTIC METHODS
; NUMBER OF SEQUENCES: 335

1752 TGTACGAGAGACACAGTTTCAAAAGACAGGCTCTTTTCTACCGGAAGAGTGTCTGAG 1811
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2101 CCGTGAAGATATCCACAGAGGCGCTGCGGACCTTGTGCTGCTGCTGCTGCTGCTGCTGCTG 2160
2172 GCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2231
2161 GCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2220
2232 GGACAGGCTCAGAGAGTCTGCGCAGCATCATCAAAACCCAGAACACGATGCTGCTGCTG 2291
2221 GGACAGGCTCAGAGAGTCTGCGCAGCATCATCAAAACCCAGAACACGATGCTGCTGCTG 2280
2292 TCGGTATGCGGTGCTGCGAAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2351
2281 TCGGTATGCGGTGCTGCGAAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2340
2352 CGTCTCACTTGAACAGACCTCCAGCGCTACATCGACAGTTCGCTGCTGCTGCTGCTGCTG 2411
2341 CGTCTCACTTGAACAGACCTCCAGCGCTACATCGACAGTTCGCTGCTGCTGCTGCTGCTG 2400
2412 GACACGCGCGTGAAGAGATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2471
2401 GACACGCGCGTGAAGAGATGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2460
2472 CAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2531
2461 CAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2520
2532 CAAGTTCCTAGCTGACAGTTCGAGAGGATCCGACAGGCTCCATCTCTCTGCTGCTGCTG 2591
2521 CAAGTTCCTAGCTGACAGTTCGAGAGGATCCGACAGGCTCCATCTCTCTGCTGCTGCTG 2580
2592 CAGCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2651
2581 CAGCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2640
2652 GCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2711
2641 GCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2700
2712 CTTCCTCAGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2771
2701 CTTCCTCAGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2760
2772 GACAGTGTGAACCTTCCCTGTGAAGAGAGAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2831
2761 GACAGTGTGAACCTTCCCTGTGAAGAGAGAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2820
2832 GCGGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2848

Db 2821 GCCGCGCCACGCGCTAT 2837
RESULT 12
US-09-749-728B-32
; Sequence 32, Application US/09749728B
; Patent No. US20020142457A1
; GENERAL INFORMATION:
; APPLICANT: Umezawa, Akihito
; APPLICANT: Hata, Jun-ichi
; APPLICANT: Fukuda, Keiichi
; APPLICANT: Ogawa, Satoshi
; APPLICANT: Sakurada, Kazuhito
; APPLICANT: Gojo, Satoshi
; APPLICANT: Yamada, Yoji
; TITLE OF INVENTION: THE CELL HAVING THE POTENTIALITY OF DIFFERENTIATION INTO CARDI
; FILE REFERENCE: 00766, 000043
; CURRENT FILING DATE: 2001-09-17
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: H11-372826
; PRIOR APPLICATION NUMBER: PCT-JP00-01148
; PRIOR FILING DATE: 2000-02-28
; PRIOR APPLICATION NUMBER: PCT-JP00-07741
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: Patentln Ver.2.0
; SEQ ID NO 32
; LENGTH: 3396
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; OTHER INFORMATION: (1)...(3399)
US-09-749-728B-32
Query Match 97.7%; Score 2782; DB 10; Length 3396;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2782; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
67 ATGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 126
1 ATGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60
127 GTGCTGCGCTGCGACAGTTCGCTGCGGCGCTGCGGCGCCAGAGGCTGCGGCTGCTGCTGCTG 186
61 GTGCTGCGCTGCGACAGTTCGCTGCGGCGCTGCGGCGCCAGAGGCTGCGGCTGCTGCTGCTG 120
187 GCGGCGCGCGCGCGCTTTCGCGCGCTGCTGCGGCGCCAGTGCCTGCTGCTGCTGCTGCTGCTG 246
121 GCGGCGCGCGCGCGCTTTCGCGCGCTGCTGCGGCGCCAGTGCCTGCTGCTGCTGCTGCTGCTG 180
247 GAGCAGAGCG 306
181 GAGCAGAGCG 240
307 GTGCGCGCGAGTGTGACAGAGCTGTGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 366
241 GTGCGCGCGAGTGTGACAGAGCTGTGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
367 TTGCGCGCTGCTGACAGGCG 426
301 TTGCGCGCTGCTGACAGGCG 360
427 AGCTACCTGCGCCACACAGGTGACAGAGCACTGCGGCGCGCGCGCGCGCGCGCGCGCGCGCG 486
361 AGCTACCTGCGCCACACAGGTGACAGAGCACTGCGGCGCGCGCGCGCGCGCGCGCGCGCGCG 420
487 CTGCGCGCGCGCGCGCGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 546
421 CTGCGCGCGCGCGCGCGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480

QY 547 CTGTGGCTCCAGCTGGCCCTACCAAGTGTGCGGGCCCGCTGTACCAAGCTCGCGCT 606
DB 481 CTGGGGCTCCAGCTGGCCCTACCAAGTGTGCGGGCCCGCTGTACCAAGCTCGCGCT 540
QY 607 GCCACTCAGAGCCCGCCGACACAGCTAGTGAAGCCCGAAGGGCTGCGGATGCGAA 666
DB 541 GCCACTCAGAGCCCGCCGACACAGCTAGTGAAGCCCGAAGGGCTGCGGATGCGAA 600
QY 667 CGGGCTTGGAACCATAGCTCAGGGAAGCCGGGGTCCCTGAGGCTGCCAGCCCGGT 726
DB 601 CGGGCTTGGAACCATAGCTCAGGGAAGCCGGGGTCCCTGAGGCTGCCAGCCCGGT 660
QY 727 GCGAGAGAGCGCGGGGGCAGTGCACAGCTCTGCCCTTGCCCAAGAGCCAGGCT 786
DB 661 GCGAGAGAGCGCGGGGGCAGTGCACAGCTCTGCCCTTGCCCAAGAGCCAGGCT 720
QY 787 GCGGCTGGCCCTGAGCCGGAAGCGAGCGCCGTTGGGAGGGGCTGGGGCCACCGGGG 846
DB 721 GCGGCTGGCCCTGAGCCGGAAGCGAGCGCCGTTGGGAGGGGCTGGGGCCACCGGGG 780
QY 847 AGGAGCGGTGAGCCGAGTACCGTGTCTGTGTGTACCTGACCTGACAGCCCGCGAA 906
DB 781 AGGAGCGGTGAGCCGAGTACCGTGTCTGTGTGTACCTGACCTGACAGCCCGCGAA 840
QY 907 GAAAGCACTCTTTGAGAGGTGCGCTCTGTGCAGCGCCACTCCACCCATCCGTGGG 966
DB 841 GAAAGCACTCTTTGAGAGGTGCGCTCTGTGCAGCGCCACTCCACCCATCCGTGGG 900
QY 967 CGCAGACACACGAGCGGGGCCCCCATCCATCGCGGGCGACAGCTCCGTGGGACATGCG 1026
DB 901 CGCAGACACACGAGCGGGGCCCCCATCCATCGCGGGCGACAGCTCCGTGGGACATGCG 960
QY 1027 TGTCCCCGGTGTACGCCAGAGACAAGCACTTCTCTACTCTCAGCGCAAGAGAGAG 1086
DB 961 TGTCCCCGGTGTACGCCAGAGACAAGCACTTCTCTACTCTCAGCGCAAGAGAGAG 1020
QY 1087 CTGGGGCCCTCTCTCTACTACTAGCTCTGTAGAGCCAGCTGACTGGCGCTGGAGGCTC 1146
DB 1021 CTGGGGCCCTCTCTCTACTACTAGCTCTGTAGAGCCAGCTGACTGGCGCTGGAGGCTC 1080
QY 1147 GTGAGAACCATCTTTCTGTGGTTCAGAGCCCTGGATGCCAGGACCTCCCGAGGTGGCC 1206
DB 1081 GTGAGAACCATCTTTCTGTGGTTCAGAGCCCTGGATGCCAGGACCTCCCGAGGTGGCC 1140
QY 1207 CGCCTGCCCCAGCGCTACTGTGCAAAATCGGCCCCCTTTCTGTGAGCTGCTTGGGAACAC 1266
DB 1141 CGCCTGCCCCAGCGCTACTGTGCAAAATCGGCCCCCTTTCTGTGAGCTGCTTGGGAACAC 1200
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DB 1201 GGGCAGTGGCCCTACGGGGGTGCTCCCTCAAGAGGCACTGCCGTGGAGCTGGGTACCC 1260
QY 1327 CCAGCAGCGGTGTCTGTCCCGGAGAGCCCGAAGGCTGTGTGCGGGCCCGGAGAG 1386
DB 1261 CCAGCAGCGGTGTCTGTCCCGGAGAGCCCGAAGGCTGTGTGCGGGCCCGGAGAG 1320
QY 1387 GAGGACACAGACCCCCGTCGCTGTGTGAGCTGCTCCGACACAGACAGACCCCTGGCAG 1446
DB 1321 GAGGACACAGACCCCCGTCGCTGTGTGAGCTGCTCCGACACAGACAGACCCCTGGCAG 1380
QY 1447 GTGTAGCGGTGTGTGAGGGCTGCTGCGCCGGGCTGTGCTCCAGGCTCTGAGGCTGC 1506
DB 1381 GTGTAGCGGTGTGTGAGGGCTGCTGCGCCGGGCTGTGCTCCAGGCTCTGAGGCTGC 1440
QY 1507 AGGCAACAAGAGCGCGCTTCTCAGAGAACACCAAGATCTCCTCGGGGAAGCAT 1566
DB 1441 AGGCAACAAGAGCGCGCTTCTCAGAGAACACCAAGATCTCCTCGGGGAAGCAT 1500
QY 1567 GCCAAGCTCTGCTGAGAGGTGAGCTGGAAGATGAGCGTGGGAGCTGCGCTTGGCTG 1626
DB 1501 GCCAAGCTCTGCTGAGAGGTGAGCTGGAAGATGAGCGTGGGAGCTGCGCTTGGCTG 1560
QY 1627 CGCAGAGAGCCAGGGGTGTGTGTCCGGCCGACAGACACGCTGTGCTGAGGAGATC 1686

DB 1561 CGCAGAGAGCCAGAGGGGTGTGTGTCCGGCCGACAGACACCGCTGTGGTGGAGATC 1620
QY 1687 CTGGCCAAAGTTCTGTACTGTGCTGATGAGTGTATGCTGTGTCAGGCTGCTCAGGCTTTC 1746
DB 1621 CTGGCCAAAGTTCTGTACTGTGCTGATGAGTGTGTACGTGTGTGACGCTGCTCAGGCTTTC 1680
QY 1747 TTTTATGTACGGAGACACAGTTTCAAAAAGACGCTCTTTTCTACCGGAAGATGTC 1806
DB 1681 TTTTATGTACGGAGACACAGTTTCAAAAAGACGCTCTTTTCTACCGGAAGATGTC 1740
QY 1807 TGGAGCAAGTTGCAAAAGCATTTGGAATCAGACACACTTGAAGGGTGCAGCTGCGGAG 1866
DB 1741 TGGAGCAAGTTGCAAAAGCATTTGGAATCAGACACACTTGAAGGGTGCAGCTGCGGAG 1800
QY 1867 CTGTGGAAGCAGAGGTCAAGGCGAGCATTCGGGAAGCCAGGCGCCGCTGGTGCAGTGCAG 1926
DB 1801 CTGTGGAAGCAGAGGTCAAGGCGAGCATTCGGGAAGCCAGGCGCCGCTGGTGCAGTGCAG 1860
QY 1927 CTCCGCTTCAATCCCAAGGCTGACGGGCTGCGGCGGATTTGTGAACATGTACTACGTCTG 1986
DB 1861 CTCCGCTTCAATCCCAAGGCTGACGGGCTGCGGCGGATTTGTGAACATGTACTACGTCTG 1920
QY 1987 GGAAGCAAGACGTTCCGCAAGAAAAAGAGGGCCGACGCTCTCAGCTGAGAGGTGAAGCA 2046
DB 1921 GGAAGCAAGACGTTCCGCAAGAAAAAGAGGGCCGACGCTCTCAGCTGAGAGGTGAAGCA 1980
QY 2047 CTGTTCAGGCTGCTCAACTACGAGCGGGCGGGCGCCGCGGCTCTCGGGGCGCTCTGTC 2106
DB 1981 CTGTTCAGGCTGCTCAACTACGAGCGGGCGGGCGCCGCGGCTCTCTGGGCGCTCTGTG 2040
QY 2107 CTGGGGCTGGAGCATTCACAGAGGCTGCGGACCTGTGTGTGTGTGTGTGTGTGTGTGT 2166
DB 2041 CTGGGGCTGGAGCATTCACAGAGGCTGCGGACCTGTGTGTGTGTGTGTGTGTGTGTGT 2100
QY 2167 GACCCGCGCTGAGCTGTACTTTGTCAAGGTGATGTACGGGCGCTTACGACACCATC 2226
DB 2101 GACCCGCGCTGAGCTGTACTTTGTCAAGGTGATGTGTCAAGGTGATGTGTCAAGCACCATC 2160
QY 2227 CCCAGAGACAGGCTCACGAGAGTCAATGCGCAGCATCATCAAAACCCAGAACATGCTGTC 2286
DB 2161 CCCAGAGACAGGCTCACGAGAGTCAATGCGCAGCATCATCAAAACCCAGAACATGCTGTC 2220
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DB 2221 GTGCGTGGTATGCGGTGTGTGCAAGAGCCCGCATGGGACGTCGCAAGGCTTCAAG 2280
QY 2347 AGCAGGCTCTTACCTTGAACAGACTTCAGACGCTACATGGAGACATGTTGCTGCTACCTG 2406
DB 2281 AGCAGGCTCTTACCTTGAACAGACTTCAGACGCTACATGGAGACATGTTGCTGCTACCTG 2340
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DB 2341 CAGGAGACAGCCCGCTGAGAGGATGCGCTGTATGAGAGAGAGCTCTCCGTAATGAG 2400
QY 2467 GCCAGAGTGGCTCTTGCAGCTTCTCTACAGCTTCAATGTGCCACACGCGGTGCATC 2526
DB 2401 GCCAGAGTGGCTCTTGCAGCTTCTCTACAGCTTCAATGTGCCACACGCGGTGCATC 2460
QY 2527 AGGGGCAAGTCTTACCTTCAAGTGCAGAGGGATCCCGAAGGGCTCATCTCTCAAGCTG 2586
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QY 2587 CTCTGAGCCTGTGTACGGCGCATGAGAAACAAGCTGTTTTCGGGGATTTGGCGGGAG 2646
DB 2521 CTCTGAGCCTGTGTACGGCGCATGAGAAACAAGCTGTTTTCGGGGATTTGGCGGGAG 2580
QY 2647 GGGCTGCTCTGTGCTTGTGTGATGATTTCTTGTGTGTGACACTCAGCTCACCCAGCG 2706
DB 2581 GGGCTGCTCTGTGCTTGTGTGATGATTTCTTGTGTGTGACACTCAGCTCACCCAGCG 2640
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Db 2641 AAAACCTTCACAGACCCCTGTCGAGAGTCCCTGATGATAGCTGCGGTGTAACCTTG 2700

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QY 2827 CAGATGCCGGCCACGCGCTAT 2848

Db 2761 CAGATGCCGGCCACGCGCTAT 2782

RESULT 13

US-10-205-629-1

Sequence 1, Application US/10205629

Publication No. US20030049236A1

GENERAL INFORMATION:

APPLICANT: Kassem, Moustapha

APPLICANT: Jensen, Thomas

APPLICANT: Rattan, Suresh

TITLE OF INVENTION: Immortalized Stem Cells

FILE REFERENCE: 006148.00002

CURRENT FILING DATE: 2002-07-26

PRIOR APPLICATION NUMBER: 60/315939

PRIOR FILING DATE: 2001-08-29

PRIOR APPLICATION NUMBER: PA 2001 01148

PRIOR FILING DATE: 2001-07-27

NUMBER OF SEQ ID NOS: 1

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 1

LENGTH: 3453

TYPE: DNA

ORGANISM: Homo sapiens

US-10-205-629-1

Query Match 97.6% Score 2780.6; DB 14; Length 3453;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2783; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 5 CCACCATGCGCGCGCTCCCGCTGCGAGCGCGTCCCTGCTGCGACGCACTAC 64

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Db 65 GCGAGGTGCTCCCGCTGCGACGCTTCTGCGCGCGCGCTGCGCGCGCGCGCGCTG 124

QY 182 TGACGCGCGGAGACCGCGCGCTTCTGCGCGCGCTGCGCGCGCGCGCGCGCTG 241

Db 125 TGACGCGCGGAGACCGCGCGCTTCTGCGCGCGCTGCGCGCGCGCGCGCGCTG 184

QY 242 CTTGAGGAGCGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTG 301

Db 185 CTTGAGGAGCGACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTG 244

QY 302 AGCTGGTGGCCGAGTGTCTGAGAGGCTGTCGAGCGCGCGCGCGCGCGCGCGCGCT 361

Db 245 AGCTGGTGGCCGAGTGTCTGAGAGGCTGTCGAGCGCGCGCGCGCGCGCGCGCT 304

QY 362 TCGGCTTCGCGCTCTGAGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTT 421

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QY 422 TCGCAGCTACCTTCCCAACAGGTGACCGAGCACTGCGGCGCGCGCGCGCGCGCG 481

Db 365 TCGCAGCTACCTTCCCAACAGGTGACCGAGCACTGCGGCGCGCGCGCGCGCGCG 424

QY 482 TGTGCTGTGCGCGCGTGGGCGAGCAAGTGTGTTCACTCTGAGCACTGCGCGCT 541

Db 425 TGTGCTGTGCGCGCGTGGGCGAGCAAGTGTGTTCACTCTGAGCACTGCGCGCT 484

QY 542 TTGTGCTGTGCGCGCGCAAGTGTGTTCACTCTGAGCACTGCGCGCTGAGCACTG 601

Db 485 TTGTGCTGTGCGCGCGCAAGTGTGTTCACTCTGAGCACTGCGCGCTGAGCACTG 544

QY 602 GCGCTGCACATCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTG 661

Db 545 GCGCTGCACATCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTG 604

QY 662 GCGAAGGCGCTGGAACCATAGCTGAGGAGCGCGCGCGCGCGCGCGCGCGCGCTG 721

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QY 722 CCGGTCGAGAGCTG 781

Db 665 CCGGTCGAGAGCTG 724

QY 782 GCGCTGCAGCTG 841

Db 725 GCGCTGCAGCTG 784

QY 842 CCGGTCGAGAGCTG 901

Db 785 CCGGTCGAGAGCTG 844

QY 902 CCGAAGAGCGACCTTGTGAGGCTGCGTCTGCGAGCGCGCGCGCGCGCGCGCTG 961

Db 845 CCGAAGAGCGACCTTGTGAGGCTGCGTCTGCGAGCGCGCGCGCGCGCGCGCTG 904

QY 962 TGGGCTG 1021

Db 905 TGGGCTG 964

QY 1022 CGCTTGTCCCGCGGTGTACGCGCGAGACCAAGCACTTCTTACTCTGAGCGCAAG 1081

Db 965 CGCTTGTCCCGCGGTGTACGCGCGAGACCAAGCACTTCTTACTCTGAGCGCAAG 1024

QY 1082 AGCAGCTGCTG 1141

Db 1025 AGCAGCTGCTG 1084

QY 1142 GCGTGTGTGAGACCATCTTGTGAGGCTGCGAGCGCGCGCGCGCGCGCGCTG 1201

Db 1085 GCGTGTGTGAGACCATCTTGTGAGGCTGCGAGCGCGCGCGCGCGCGCGCTG 1144

QY 1202 TGGGCTG 1261

Db 1145 TGGGCTG 1204

QY 1262 ACCAGCGCGACATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTG 1321

Db 1205 ACCAGCGCGACATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTG 1264

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Db 1265 TCACCCGAGACGCGCGGTGTGTGCGCGGAGAAAGCGCGCGCGCGCGCGCGCTG 1324

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Db 1445 GCTCCAGGACAGAGACCGCGCTTCTCAGAGAACACCAAGATTCTCTCCCTGGGGA 1504

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Db 1565 GCGTGTGAGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTG 1624

QY	1682	AGATCCGCGCCAAATTCCTCTGCAACGCGCGATAGACGTGTACGTGTGACAGCTGTCAAGCT	17411
Db	1625	AGATCTCGGCGCAAGTCTCTGCAACGCGCGATAGACGTGTACGTGTGACAGCTGTCAAGCT	16844
QY	1742	CTTTCCTTTTATATGTCACGAGACCAACGTTTCAAAAAGAACAGGCTCTTTTTCATCCGGAAGA	18010
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QY	1802	GTGTCTGGAGCAATTTGCAAAAGCAATTGGAAATCAAGACAGCACTTGAAGAGGTTGCACTGC	18615
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QY	1862	GGAGACGTGTGGAAGACAGAGTTCAGGACAGCATTCGCGGAAGCCACAGGCCCCCTGTGCAAGCT	19212
Db	1805	GGAGACGTGTGGAAGACAGAGTTCAGGACAGCATTCGCGGAAGCCACAGGCCCCCTGTGCAAGCT	18644
QY	1922	CCAGACTCCGCTTCATCCCAAGCCCTGACGGGGCTCGGGCCGATTTGTGAATGGAACATGAC	19811
Db	1865	CCAGACTCCGCTTCATCCCAAGCCCTGACGGGGCTCGGGCCGATTTGTGAATGGAACATGAC	19244
QY	1982	TCGTGGGAGCCAGAAAGTTCGCGAGAGAAAAGAGGGCCGAGCGTCTACCTTCAGAGGTGA	20411
Db	1925	TCGTGGGAGCCAGAAAGTTCGCGAGAGAAAAGAGGGCCGAGCGTCTACCTTCAGAGGTGA	19844
QY	2042	AGGCACGTTCAGGGTGTCTCAACATCAACAGACGCGGGGCGCGCCCGCGGCTCCTGTGGGGCGCT	21010
Db	1985	AGGCACGTTCAGGGTGTCTCAACATCAACAGAGCGGGGCGCGCCCGCGGCTCCTGTGGGGCGCT	20444
QY	2102	CTGTGTGTGGGCTGTGGAGATATCCACAGAGGCTGTGGGACACTTGTGTGTGTGTGGGG	21615
Db	2045	CTGTGTGTGGGCTGTGGAGATATCCACAGAGGCTGTGGGACACTTGTGTGTGTGTGGGG	21044
QY	2162	CCCAAGGACCCGCGCCTGTAGAGCTGTACATTGTTCAGAGGTGATGTACAGGGCGCGTACAGCA	22212
Db	2105	CCCAAGGACCCGCGCCTGTAGAGCTGTACATTGTTCAGAGGTGATGTACAGGGCGCGTACAGCA	21644
QY	2222	CCATCCCCCAGAGACAGGCTCACGGAGGTTCATCGCCAGCATATCAAAACCCAGAACACGT	22811
Db	2165	CCATCCCCCAGAGACAGGCTCACGGAGGTTCATCGCCAGCATATCAAAACCCAGAACACGT	22244
QY	2282	ACTGTGTGTGCGGTGTATGCGGTGTGTCAGGAAGGCGGCCATGTGGGAGAGTTCGCAAGGCGCT	23411
Db	2225	ACTGTGTGTGCGGTGTATGCGGTGTGTCAGGAAGGCGGCCATGTGGGAGAGTTCGCAAGGCGCT	22844
QY	2342	TCAAGAGCCACAGTCTACCTTGAACAGACCTCCAGCCGTACATGCGAGCAAGTTCGTGGGCTC	24010
Db	2285	TCAAGAGCCACAGTCTACCTTGAACAGACCTCCAGCCGTACATGCGAGCAAGTTCGTGGGCTC	23444
QY	2402	ACCTGAGAGGAAACCAAGCCCGCTGAGAGGATGTGCGGTGTATGTAGAGCAGAGCTTCCTCCCTGA	24615
Db	2345	ACCTGAGAGGAAACCAAGCCCGCTGAGAGGATGTGCGGTGTATGTAGAGCAGAGCTTCCTCCCTGA	24044
QY	2462	ATGAGGCGCAGAGTGTGGGCTTTCACACAGCTTCCTACGCTTCATGTCGACACAGCGCGTCCCTGA	25212
Db	2405	ATGAGGCGCAGAGTGTGGGCTTTCACACAGCTTCCTACGCTTCATGTCGACACAGCGCGTCCCTGA	24644
QY	2522	GCATTCAGGGGCAAGTCTTACGTCCAGTCCAGGGGATCCGACAGGGGCTCATCTCTCTCCA	25811
Db	2465	GCATTCAGGGGCAAGTCTTACGTCCAGTCCAGGGGATCCGACAGGGGCTCATCTCTCTCCA	25244
QY	2582	CGGTGTGTGAGGCTGTGCTATACGGCGCAATGTGGAACAAACCTGTGTGGGGGAGTTCGGC	26411
Db	2525	CGGTGTGTGAGGCTGTGCTATACGGCGCAATGTGGAACAAACCTGTGTGGGGGAGTTCGGC	25844
QY	2642	GGGACGGGCTGCTCCTGCTGCTTGGTGTGATGTATTTCTTTGGTGTGACACTTCACCTCACACC	27010
Db	2585	GGGACGGGCTGCTCCTGCTGCTTGGTGTGATGTATTTCTTTGGTGTGACACTTCACCTCACACC	26444
QY	2702	ACGGGAAAACCTTCTCTCAGAACCTGTGTCCAGAGTGTCCCTGAGATGTGGCTGTGGTGTGA	27615
Db	2645	ACGGGAAAACCTTCTCTCAGAACCTGTGTCCAGAGTGTCCCTGAGATGTGGCTGTGGTGTGA	27044

QY	2762	ACTTGGCGAAGACAGTGGTGAACCTCCCTGTAGAAGACAGACCCCTGGGTGCACGGCTT	2821
Db	2705	ACTTGGCGAAGACAGTGGTGAACCTCCCTGTAGAAGACAGACCCCTGGGTGCACGGCTT	2766
QY	2822	TTTCTTCAGTCCGGCCCGACGGCCTAT	2848
Db	2765	TTGTTCAGATCCCGCCCGACGGCCTAT	2791

RESULT 14

Sequence 1, Application US/10105616

;; PUBLICATION NO. US200301/596/AL

APPLICANT: Geron Corporation

APPLICANT: Denning, Chris

APPLICANT: Zhao, Debbiao

;; TITLE OF INVENTION: Vectors for telomerizing Nuclear donor cells and improving the
: TITLE OF INVENTION: of Nuclear Transfer

FILE REFERENCE: 732/002

CURRENT FILING DATE: 2003-01-31

PRIOR FILING DATE: 2001-03-21

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; NUMBER OF SEQ ID NOS: 33
;
SOFTWARE: PatentIn version 3.1

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; SEQ ID NO 1
; LENGTH: 13766

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TYPE: DNA

CONVICTION: FREQUENTLY
; FEATURE:

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OTHER INFORMATION: rcoma virus (MPSV) promoter, and vector components
;;
OTHER INFORMATION: artificial construct comprising human TERT, myeloproliferative
;;

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05-10-105-616-1

Query Match	97.68;	Score 2780.6;	DB 12;	Length 13766;
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Matches 2783; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

62 CCGCGATGCCCGCGCGCTCCCCCGCTGCCGAGCCCGTGCCTCCCTGCTGCGCAGCCACTACC 121

Dh
398A CCACTGCCCCCTCCCTCAGACCGGCCGTGGTATTTTCCTCATCCC

4043

3

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

D8 404 GCGAGTGTGCTGCCCTGGCCACGTTCGTGCCTGGCCTTGCGGCCCAAGGCTGGCGGCTGG 410

182 TGCAGCGCGGGGACCGCGGCTTTCGCGCGCTGGTGGCCAGTGCCCTGGTGTGCGTGC 241

Db 4104 TGCAGCGCGGGACCCGGCGCTTCCGCGCGCTGGTGGCCAGTGCCTGGTGTGCGTGC 4163

QY 242 CCTGGGACGACGGCCGCCGCCCTCCTTCCGCCAGGTGTCCTGCCCTGAAGC 301

Db 4164 CCTGGGACGACGGCCGCCGCCGCCCTTCCGCCAGTGTCCTGACCTGAAGG 4223

[illegible]

— — — — —

22 4201

362 TCGGCTTCGGCTGCTGGACGGGGCCCCGGGGGGCCCCCGAGGCCCTCACCACCAGCG 421

Db 4284 TCGGCTTCGGCTGTGGACGGGGGCCCGGGGGCCCCCGAGGCTTCACCAACAGCG 4343

422 TGGCAGCTACCTGCCCAACACACGCTGACCGACGCACTGGGGGGAGCGGGCGTGGGC 481

Db 434 TGGCAGCTACTGCCCAACACACGGTGACCGACGCACCTGCGGGGAGCGGGCGTGCGGC 4403

482 TGCCTGCTGCGCGCGCTGGCGACGACGTCCTGGTTCACTGCTGCGCGCGCGCGCTCT 541

[illegible]

[illegible]

Db	5544	GGCTGCGAGGAGGCCACGAGGGGTGGCTGTCTTCCGGCCGCGAGACACCCTGCTGCTAGG	5603
QY	1682	AGATCGTGGCCAAAGTTCCTGCACATGGCGTGAATGAGTGTACGTGTGAGTGTCTCAAGT	1741
Db	5604	AGATCTTGCCCAAGTTCCTGCACATGGCGTGAATGAGTGTGTACGTGTGAGTGTCTCAAGT	5663
QY	1742	CTTCTCTTATGTCTACGAGGACCAAGTCTTCAAAAGAACAGGCTCTTTTCTTACCGGAGAGA	1801
Db	5664	CTTCTCTTATGTCTACGAGGACCAAGTCTTCAAAAGAACAGGCTCTTTTCTTACCGGCGGA	5723
QY	1802	GTGTGTGAGCAAGTTCGAAAGCATTTGGAAATCAGACAGCAGCTTGAAGAGGGTGCAGCTGC	1861
Db	5724	GTGTGTGAGCAAGTTCGAAAGCATTTGGAAATCAGACAGCAGCTTGAAGAGGGTGCAGCTGC	5783
QY	1862	GGGAGCTGTGGGAAGCAGAGGTCAGAGGCGACATTCGGGAAGGCCAGGCGCGCCCTGCTGAGCT	1921
Db	5784	GGGAGCTGTGGGAAGCAGAGGTCAGAGGCGACATTCGGGAAGGCCAGGCGCGCCCTGCTGAGCT	5843
QY	1922	CCAGACTCCGCTTCATCCCAAGCCTGACGGGCTGCGGCGCATTTGTGAACATGAGCATACG	1981
Db	5844	CCAGACTCCGCTTCATCCCAAGCCTGACGGGCTGCGGCGCATTTGTGAACATGAGCATACG	5903
QY	1982	TCTGTGGAGCCAGAACGTTCCGCGAGAGAAAAGAGGGCCGAGCGTCTCACTCGAGGGTGA	2041
Db	5904	TCTGTGGAGCCAGAACGTTCCGCGAGAGAAAAGAGGGCCGAGCGTCTCACTCGAGGGTGA	5963
QY	2042	AGGCACTGTTCAGCGTGTCTCAACTACGAGCGGGGGCCGGCCGGCCGCTCTGGGGCGCT	2101
Db	5964	AGGCACTGTTCAGCGTGTCTCAACTACGAGCGGGGGCCGGCCGGCCGCTCTGGGGCGCT	6023
QY	2102	CTGTGCTGGGCTGTGACGATATCCACAGAGGCGCTGGCGACCTTGTGTGTGTGGGG	2161
Db	6024	CTGTGCTGGGCTGTGACGATATCCACAGAGGCGCTGGCGACCTTGTGTGTGTGGGG	6083
QY	2162	CCCGAGACCCCGCCCTGACGTGTACTTTGTCAAAGTGTGATGTGACGGGGCGTACGACA	2221
Db	6084	CCCGAGACCCCGCCCTGACGTGTACTTTGTCAAAGTGTGATGTGACGGGGCGTACGACA	6143
QY	2222	CCATCCCCCAGAGACAGGCTCAAGGAGGTCATCCGACAGTATATCAAAACCCAGAACAGCT	2281
Db	6144	CCATCCCCCAGAGACAGGCTCAAGGAGGTCATCCGACAGTATATCAAAACCCAGAACAGCT	6203
QY	2282	ACTGCGTGCATCGGTATGCCGCTGTGTCAGAAAGGCCGCCATGAGGGCAGCTCCGCAAGGCT	2341
Db	6204	ACTGCGTGCATCGGTATGCCGCTGTGTCAGAAAGGCCGCCATGAGGGCAGCTCCGCAAGGCT	6263
QY	2342	TCAAGAGCCACGTCTTACCTTGACAGACCTCCAGCCGTACATCGACAGTTGCTGGCTC	2401
Db	6264	TCAAGAGCCACGTCTTACCTTGACAGACCTCCAGCCGTACATCGACAGTTGCTGGCTC	6323
QY	2402	ACCTTCAGAGAACCAAGCCCGCTGAGGGATGCGCGTCAATGAGACAGAGGCTCCCTCTGA	2461
Db	6324	ACCTTCAGAGAACCAAGCCCGCTGAGGGATGCGCGTCAATGAGACAGAGGCTCCCTCTGA	6383
QY	2462	ATGAGGCGCAGAGTGGCCCTTCTTCGACAGCTCTTCTACAGCTTCATGTGTCACACAGCCGCTGC	2521
Db	6384	ATGAGGCGCAGAGTGGCCCTTCTTCGACAGCTCTTCTACAGCTTCATGTGTCACACAGCCGCTGC	6443
QY	2522	GCATTCAGGGGCAAGTCTTACGTCCAGTGTCCAGGGGAATCCGCGAGGCTCCATCTCTTCCA	2581
Db	6444	GCATTCAGGGGCAAGTCTTACGTCCAGTGTCCAGGGGAATCCGCGAGGCTCCATCTCTTCCA	6503
QY	2582	CGGTGCTGTGAGGCTGTGTCAGGCGGCAATGAGGAACAAGCTTTTGGCGGGATTTGGGC	2641
Db	6504	CGGTGCTGTGAGGCTGTGTCAGGCGGCAATGAGGAACAAGCTTTTGGCGGGATTTGGGC	6563
QY	2642	GGGAGCGGCTCTCTCTGCGTTTGGTGTGATGATTTCTTGTGTGATACACTTCACCTCACCC	2701
Db	6564	GGGAGCGGCTCTCTCTGCGTTTGGTGTGATGATTTCTTGTGTGATACACTTCACCTCACCC	6623
QY	2702	ACGCGAAAACCTTCTTACGACCCCTGTGTCGAGGTGTCCCTGAGTATGCTGTGCTGTGA	2761

DB 6624 AGCGAAGACCTTCCCTGAGACCCCTGCTCCGAGGTCTCCCTGAGTATGCGCTGCTGTGA 6683
QY 2762 ACTTGGCGAAGACAGTGTGAATCTCCCTGTAGAGACGAGGCCCTGGGTGGACGCGCTT 2821
DB 6684 ACTTGGCGAAGACAGTGTGAATCTCCCTGTAGAGACGAGGCCCTGGGTGGACGCGCTT 6743
QY 2822 TTGCTTCAAGTGGCGGCGCCACGCGCTAT 2848
DB 6744 TTGCTTCAAGTGGCGGCGCCACGCGCTAT 6770

RESULT 15
US-10-105-616-6/c
; Sequence 6, Application US/10105616
; Publication No. US20030175967A1
; GENERAL INFORMATION:
; APPLICANT: Genon Corporation
; APPLICANT: Clark, A. J.
; APPLICANT: Demning, Chris
; APPLICANT: Cul, Wei
; APPLICANT: Zhao, Debbiao
; TITLE OF INVENTION: Vectors for Telomerizing Nuclear Donor Cells and Improving the Ef
; FILE REFERENCE: 732/002
; CURRENT APPLICATION NUMBER: US/10/105,616
; PRIOR FILING DATE: 2003-01-31
; PRIOR APPLICATION NUMBER: US Provisional Application 60/277,749
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 8742
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Artificial construct comprising human TERT, myeloproliferative sa
; OTHER INFORMATION: rcoma virus (MPV) promoter, and vector components
US-10-105-616-6

Query Match 97.2%; Score 2768.6; DB 12; Length 8742;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2782; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 62 CCGCGATGCCGCGCGCTCCCGCTGCGAGCCGTGCGTCCCTGTCGCGACGCACTACC 121
DB 5605 CCACCATGCCGCGCGCTCCCGCTGCGAGCCGTGCGTCCCTGTCGCGACGCACTACC 5546
QY 122 GCGAGGTGCTGCGCGTGGCGACAGTTCGTGCGGCGCTTGGGGCCCGACGGGCTGGCGGCTGG 181
DB 5545 GCGAGGTGCTGCGCGTGGCGACAGTTCGTGCGGCGCTTGGGGCCCGACGGGCTGGCGGCTGG 5486
QY 182 TGCAGGCGGAGACCCGCGGCTTTCGCGCGCTGCTGAGCCAGTCTGTGTGTGTCG 241
DB 5485 TGCAGGCGGAGACCCGCGGCTTTCGCGCGCTGCTGAGCCAGTCTGTGTGTGTCG 5426
QY 242 CCGTGGAGCAGCGCGCGCGCGCGCGCGCGCGCTTCCCTTCCGCAAGTGTCTGCTGTAAG 301
DB 5425 CCGTGGAGCAGCGCGCGCGCGCGCGCGCGCGCTTCCCTTCCGCAAGTGTCTGCTGTAAG 5366
QY 302 ACCTGGTGGCGGAGTGTGAGAGGCTGTGAGAGCGCGCGCGCGCGCGCGCGCGCGCTT 361
DB 5365 ACCTGGTGGCGGAGTGTGAGAGGCTGTGAGAGCGCGCGCGCGCGCGCGCGCGCGCTT 5306
QY 362 TCGGCTTCCGCTGTGAGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTT 421
DB 5305 TCGGCTTCCGCTGTGAGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTT 5246
QY 422 TCGCAGACTACTGTCGCGCAACAGCGTGAACGACGCACTGCGGGGAGCGGGGCGTGGGGC 481
DB 5245 TCGCAGACTACTGTCGCGCAACAGCGTGAACGACGCACTGCGGGGAGCGGGGCGTGGGGC 5186
QY 482 TCGCTGCTGGCTT 541

DB 5185 TCGTCTGCGCGCGCGCTGGGCGACGACGTGCTGCTTACCTGTCGCGACGCTGGCGGCTCT 5126
QY 542 TTGCTGTGTGTGCTCCAGCTGCGCTTACAGAGTGTGCGGCGCGCGCTGTACAGCTCG 601
DB 5125 TTGCTGTGTGTGCTCCAGCTGCGCTTACAGAGTGTGCGGCGCGCGCTGTACAGCTCG 5066
QY 602 GCGCTGCCACTGAGCTT 661
DB 5065 GCGCTGCCACTGAGCTT 5006
QY 662 GCGAAGCGGCTTGGAAACATAGGCTGAGGAGCGCGGCGCGCGCGCGCGCGCGCGCTT 721
DB 5005 GCGAAGCGGCTTGGAAACATAGGCTGAGGAGCGCGGCGCGCGCGCGCGCGCGCTT 4946
QY 722 CCGGTGCGAGAGAGCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTT 781
DB 4945 CCGGTGCGAGAGAGCGCGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTT 4886
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DB 4885 GCGGTGCGCGCTGCGCGCTGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 4826
QY 842 CCGGCGAGAGCGCGTGAACAGAGTGAACGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 901
DB 4825 CCGGCGAGAGCGCGTGAACAGAGTGAACGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 4766
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DB 4765 CCGAAGAGCGACCTTGTGAGAGGTGCGCTCTGTGAGCGCGCGCGCGCGCGCGCGCGCT 4706
QY 962 TGGGCT 1021
DB 4705 TGGGCT 4646
QY 1022 CCGCTGTGCT 1081
DB 4645 CCGCTGTGCT 4586
QY 1082 AGCAGCTGCGGCGCGCTTCT 1141
DB 4585 AGCAGCTGCGGCGCGCGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 4526
QY 1142 GCGTGTGAGAGCACTTCTTGTGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 1201
DB 4525 GCGTGTGAGAGCACTTCTTGTGAGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 4466
QY 1202 TGGCT 1261
DB 4465 TGGCT 4406
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DB 4405 ACCAGCGAGAGTGCCT 4346
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DB 4345 TCAACCCAGCAGCGGCTGTGTGTGCGCGGAGAGAGCGCGCGCGCGCGCGCGCGCT 4286
QY 1382 AGGAGGAGAGACAGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 1441
DB 4285 AGGAGGAGAGACAGACCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 4226
QY 1442 GCGAGGTGTAAGGCTTGTGCGGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 1501
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QY 1502 GCTTCAAGGCAACAGAGCGCGCTTCTGAGAAACAGAAAGTTCATCTCCCTGGGGA 1561
DB 4165 GCTTCAAGGCAACAGAGCGCGCTTCTGAGAAACAGAAAGTTCATCTCCCTGGGGA 4106
QY 1562 AGCATGCCAAGCTCTGCTGAGAGAGCTGACGCTGGAAGATGAGCTGCGGAGATGCGGCTT 1621
DB 4105 AGCATGCCAAGCTCTGCTGAGAGAGCTGACGCTGGAAGATGAGCTGCGGAGATGCGGCTT 4046

QY 1622 GCGTCCGAGAGACCCAGGGGTTGGCTGTTCGGGCCGAGAGACCGTCTGCTGAGG 1681
|||||
Db 4045 GCGTCCGAGAGAGCCAGGGGTTGGCTGTTCGGGCCGAGAGACCGTCTGCTGAGG 3986
1682 AGATCCTGGCCAAAGTTCCTGCACTGCTGATGAGTGTAGCTGCTGAGCTGCTGAGT 1741
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Db 3985 AGATCCTGGCCAAAGTTCCTGCACTGCTGATGAGTGTAGCTGCTGAGCTGCTGAGT 3927
1742 CTTTCTTTTATGTACAGGAGACCAAGTTTCAAAAGAACAGGCTCTTTTCTACCGAAGA 1801
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Db 3926 CTTTCTTTTATGTACAGGAGACCAAGTTTCAAAAGAACAGGCTCTTTTCTACCGGCGGA 3867
1802 GTGTCTGAGCAAGTTGCAAAAGCATTTGAAATCAGACACTTGAAGAGGGGTGACGTGC 1861
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Db 3866 GTGTCTGAGCAAGTTGCAAAAGCATTTGAAATCAGACACTTGAAGAGGGGTGACGTGC 3807
1862 GGGAGCTGTGGAGCAGAGGTCAGAGGTCAGATCCGGAGAGCCAGGCCGCTGAGCT 1921
|||||
Db 3806 GGGAGCTGTGGAGCAGAGGTCAGAGGTCAGATCCGGAGAGCCAGGCCGCTGAGCT 3747
1922 CCAGACTCCGCTTATCCCAAGCTGACGGGCTGCGGCCGATTGTGAACATGACACTAG 1981
|||||
Db 3746 CCAGACTCCGCTTATCCCAAGCTGACGGGCTGCGGCCGATTGTGAACATGACACTAG 3687
1982 TCGTGGAGCCAGAAAGTTCCGCAAGAAAAAGAGGCCGAGCGTCTACCTCGAGAGTGA 2041
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Db 3686 TCGTGGAGCCAGAAAGTTCCGCAAGAAAAAGAGGCCGAGCGTCTACCTCGAGAGTGA 3627
2042 AGGCACTGTTCAGGCTGCTCAACTACAGAGGGGGGGGGGCCGCCGCTCTGCGGGGCT 2101
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Db 3626 AGGCACTGTTCAGGCTGCTCAACTACAGAGGGGGGGGGGCCGCCGCTCTGCGGGGCT 3567
2102 CTGTGCTGGGCTGGAGATATCCACAGAGGCTGGCGACCTGCTGCTGCTGCTGCTG 2161
|||||
Db 3566 CTGTGCTGGGCTGGAGATATCCACAGAGGCTGGCGACCTGCTGCTGCTGCTGCTG 3507
2162 CCCAGGAGCCGCCGCTGAGCTGTACTTGTTCAGAGGTGATGTGACGGGGCGGTACGACA 2221
|||||
Db 3506 CCCAGGAGCCGCCGCTGAGCTGTACTTGTTCAGAGGTGATGTGACGGGGCGGTACGACA 3447
2222 CCATCCCCCAGAGAGGCTCAAGAGGTCATCGCAGCATCATCAAAACCCAGAACAGT 2281
|||||
Db 3446 CCATCCCCCAGAGAGGCTCAAGAGGTCATCGCAGCATCATCAAAACCCAGAACAGT 3387
2282 ACTGCGTGGCTGGATGCGGTGCTCCAGAGGCCGCCATGGGACGTCCGCAAGGCT 2341
|||||
Db 3386 ACTGCGTGGCTGGATGCGGTGCTCCAGAGGCCGCCATGGGACGTCCGCAAGGCT 3327
2342 TCAAGAGCCAGAGTCTTACCTTGACAGACCTCCAGCCGTACATGCGAGAGTTCGTGCTC 2401
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Db 3326 TCAAGAGCCAGAGTCTTACCTTGACAGACCTCCAGCCGTACATGCGAGAGTTCGTGCTC 3267
2402 ACCGTCAGAGAGACAGCCGCTGAGGGATGCGGTGCTCATGAGAGAGGCTCCGCCGTA 2461
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Db 3266 ACCGTCAGAGAGACAGCCGCTGAGGGATGCGGTGCTCATGAGAGAGGCTCCGCCGTA 3207
2462 ATGAGGCCAGAGAGTGGCTCTTCCAGAGTCTTCTACGCTTATGTCACCCAGCGCTGC 2521
|||||
Db 3206 ATGAGGCCAGAGAGTGGCTCTTCCAGAGTCTTCTACGCTTATGTCACCCAGCGCTGC 3147
2522 GCATCAGAGGAGAGTCTTACGTCAGAGTCCAGGGGATCCGCAAGGGCTCCATCTCTCA 2581
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Db 3146 GCATCAGAGGAGAGTCTTACGTCAGAGTCCAGGGGATCCGCAAGGGCTCCATCTCTCA 3087
2582 CGGTGCTCTGAGGCTGTGTCACGAGCCAGATGAGAGAACAAAGCTTTTGGGGGATTCGGC 2641
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Db 3086 CGGTGCTCTGAGGCTGTGTCACGAGCCAGATGAGAGAACAAAGCTTTTGGGGGATTCGGC 3027
2642 GGGAGGGGCTGCTCTGCTGTTGGTGTGATGATTTCTTGTGTGACACCTCACCACCC 2701
|||||
Db 3026 GGGAGGGGCTGCTCTGCTGTTGGTGTGATGATTTCTTGTGTGACACCTCACCACCC 2967

QY 2702 ACGGAAAACCTTCTCTAGAGACCTGTGTCAGAGTGTCCCTGAGTATGAGTGTGCTGTA 2761
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Db 2966 ACGGAAAACCTTCTCTAGAGACCTGTGTCAGAGTGTCCCTGAGTATGAGTGTGCTGTA 2907
2762 ACTTGGGAGAGACAGTGTGAACTTCCCTGTGAAGAGAGGCCCTGGGTGACAGGCTT 2821
|||||
Db 2906 ACTTGGGAGAGACAGTGTGAACTTCCCTGTGAAGAGAGGCCCTGGGTGACAGGCTT 2847
2822 TTGTTCAAGATGCGGCGCCACAGGCTTAT 2848
|||||
Db 2846 TTGTTCAAGATGCGGCGCCACAGGCTTAT 2820

Search completed: October 7, 2003, 09:09:59
Job time : 680.622 secs